

Alaska Salmon Enhancement Program 2000 Annual Report

compiled by
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ABSTRACT <i>(100 words maximum)</i> The Alaska Department of Fish and Game oversees and regulates all state and private sector salmon rehabilitation and enhancement projects. Protection of Alaska's natural salmon stocks requires stringent permitting processes. Geneticists, pathologists, and biologists review all projects prior to the issuance of a permit to operate a salmon ranching facility, transfer eggs or fish, or release any fish into Alaska waters. Pathology, genetic, coded wire tag, and otolith processing laboratories are maintained to provide both diagnostic information to department fishery managers inseason and technical expertise to the private sector. Over 1.7 billion salmon eggs were collected by Alaskan hatchery operators in 2000. In addition, 1.4 billion fish were released and almost 40 million were harvested in common property fisheries as a result of the ocean ranching program. These harvests represents 34% of the 2000 commercial common property harvest of 136 million fish. The ocean ranching program provides Alaskans with hundreds of seasonal and full-time jobs.		<u>SUBJECT CATEGORY</u> <input checked="" type="checkbox"/> NATURAL RESOURCES <input type="checkbox"/> EDUCATION <input type="checkbox"/> SOCIAL SERVICES <input type="checkbox"/> HEALTH <input type="checkbox"/> TRANSPORTATION <input type="checkbox"/> LAW ENFORCEMENT <input type="checkbox"/> COMMERCE & INDUSTRY <input type="checkbox"/> GENERAL GOVERNMENT <input type="checkbox"/> LOCAL GOVERNMENT <input type="checkbox"/> OTHER
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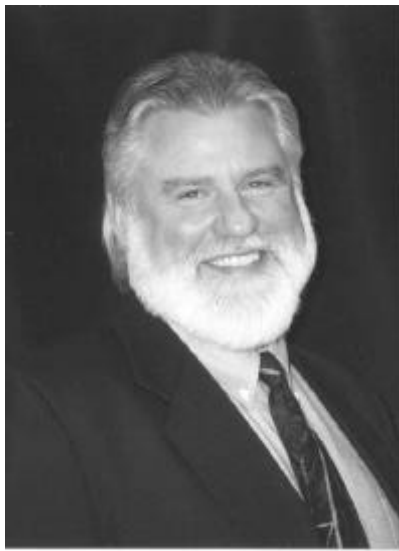
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Dedicated to the memories of
Martin Richard and Ladd Macaulay



Martin Richard
1949-2000



Ladd Macaulay
1942-2000

List of Figures

1	Total egg takes, releases, and returns to the enhancement program in 1976-2000.....	2
2	Locations of Alaska hatcheries.....	3

List of Tables

1	Total egg takes, releases, and returns to the Alaska salmon enhancement program in 2000	4
2	Alaska enhancement/common property commercial harvest of enhanced fish, in thousands of fish, 2000.....	5
3	Fishery enhancement program time line of events.....	6
4	Eggs taken at Alaska hatcheries in 2000, in millions	8
5	Alaska hatchery 2000 releases, in millions of fish	9
6	Estimated adult returns, by species, to Alaska enhancement projects in 2000, including common property harvests, as reported by operators.....	10
7	Projected adult returns, by species, to Alaska enhancement projects in 2000	11
8	Cumulative state loans and enhancement funds returned to associations (through December 31, 2001) and annual fish sales for private nonprofit hatcheries	12
9	(a) Summary of salmon production from Alaska hatcheries and enhancement projects.....	13
	(b) Summary of pink salmon production from Alaska hatcheries and enhancement projects.....	13
	(c) Summary of chum salmon production from Alaska hatcheries and enhancement projects.....	13
	(d) Summary of coho salmon production from Alaska hatcheries and enhancement projects.....	14

List of Tables (continued)

(e)	Summary of chinook salmon production from Alaska hatcheries and enhancement projects	14
(f)	Summary of sockeye salmon production from Alaska hatcheries and enhancement projects	14
10 (a)	Summary of statewide salmon production (all species) from private nonprofit hatcheries in Alaska, as reported by operators	15
(b)	Summary of pink salmon production from private nonprofit hatcheries in Alaska	15
(c)	Summary of chum salmon production from private nonprofit hatcheries in Alaska	16
(d)	Summary of coho salmon production from private nonprofit hatcheries in Alaska	16
(e)	Summary of chinook salmon production from private nonprofit hatcheries in Alaska	17
(f)	Summary of sockeye salmon production from private nonprofit hatcheries in Alaska	17
11	Alaska commercial salmon fishery harvest weights and prices, 2000	18
12	Alaska state hatchery FY 00 operating budgets, in thousands of dollars	18
13 (a)	Estimated pink salmon returns to Alaska hatcheries in 2000, including common property harvests, as reported by operators.....	19
(b)	Estimated chum salmon returns to Alaska hatcheries in 2000, including common property harvests, as reported by operators.....	20
(c)	Estimated coho salmon returns to Alaska hatcheries in 2000, including common property harvests, as reported by operators.....	21
(d)	Estimated chinook salmon returns to Alaska hatcheries in 2000, including common property harvests, as reported by operators.....	22

List of Tables (continued)

(e)	Estimated sockeye salmon returns to Alaska hatcheries in 2000, including common property harvests, as reported by operators.....	23
(f)	Estimated “other” enhanced fish returns to Alaska hatcheries in 2000	24
14	Summary of fishery resource-permitted salmon production in Alaska for 2000	25
15 (a)	Updated pink salmon returns to Alaska hatcheries in 1999, including common property harvests, as reported by operators.....	27
(b)	Updated chum salmon returns to Alaska hatcheries in 1999, including common property harvests, as reported by operators.....	28
(c)	Updated coho salmon returns to Alaska hatcheries in 1999, including common property harvests, as reported by operators.....	29
(d)	Updated chinook salmon returns to Alaska hatcheries in 1999, including common property harvests, as reported by operators.....	30
(e)	Updated sockeye salmon returns to Alaska hatcheries in 1999, including common property harvests, as reported by operators.....	31
(f)	Updated “other” enhanced fish returns to Alaska hatcheries in 1999	32
16	List of acronyms and abbreviations.....	33
17	Alaska salmon hatchery contact list	34

The Alaska Department of Fish and Game (ADF&G) oversees and regulates all state and private sector salmon rehabilitation and enhancement projects. Protection of Alaska's natural salmon stocks requires stringent permitting processes. Geneticists, pathologists, and biologists review all projects prior to the issuance of a permit to operate a salmon ranching facility, transfer eggs or fish, or release fish into Alaska waters. Pathology, genetic, coded wire tag, and otolith processing laboratories are maintained to provide diagnostic information to department fishery managers inseason, as well as technical expertise to the private sector.

Nearly 1.8 billion salmon eggs were collected by Alaska hatchery operators in 2000. In addition, more than 1.4 billion fish were released and over 40 million fish were harvested in common property fisheries as a result of the ocean ranching program. The ocean ranching program provides hundreds of Alaskans with seasonal and full-time jobs. It is now considered the largest agricultural industry in Alaska.

Prince William Sound and Southeast Alaska are the predominant regions affected by the enhancement program, and pink and chum salmon are the predominant species produced. Production levels, in terms of egg takes and releases, have largely stabilized. Programs have matured and are generally at planned capacities.

The salmon enhancement program is composed of several factions: 2 state hatcheries, 31 private nonprofit (PNP) hatcheries, 3 federal or Bureau of Indian Affairs (BIA) hatcheries, and several streamside incubation and restoration projects. State hatcheries are operated by the department's Division of Sport Fish and primarily produce salmonid species targeted for sport fisheries. PNP hatchery corporations are permitted to operate salmon hatcheries and recoup their operational costs from a special harvest of adult fish, called a cost recovery harvest. All other returning adult fish are available for harvest in Alaska's common property (public) fisheries. Federal hatcheries are generally used for research, streamside incubation projects enhance stocks of fish inexpensively, and stream restoration projects involve restoring streams degraded by human-use activities.

Highlights in 2000:

- The season started tragically for the enhancement program when Alaska Department of Community and Economic Development employees Ladd Macaulay and Martin Richard were killed in a car accident following hatchery inspections in Cook Inlet. Steve McGee, with the Department of Fish and Game, was also seriously injured in the accident. Martin was the director of the Division of Investments and Ladd was a hatchery loan officer. Ladd is also known as the founder of the Douglas Island Pink and Chum Corporation and a tireless supporter of salmon enhancement.
- As hatchery operators predicted in 1999, chum salmon in 2000 returned in record numbers to southeast Alaska and Prince William Sound. These chum salmon helped save southeast salmon fishermen from a devastating year caused by a poor pink return. The average weight of the returning chum salmon was also the largest on record.

However, hatchery operators are seeing indications from the returning adult chum salmon age composition that the current excellent ocean survival for chum salmon is returning to more normal levels. Predictions for 2001 call for only 50% of the harvest of 2000.

- The commercial common property harvest of salmon was composed of 34% enhancement program-produced fish, in terms of numbers of fish. This unprecedented contribution helped buoy the commercial fishery through what could have been a disastrous year statewide.
- The commercial common property harvest of salmon was composed of more than 22% enhancement program-produced fish, in terms of revenue. A preliminary estimate of the value of the enhanced common property harvest is \$56 million.
- More than 550,000 hatchery-produced fish representing 10 species (chinook, coho, pink, sockeye, and chum salmon; steelhead, lake, and rainbow trout;

Arctic char and grayling) were caught by sport fishermen in 2000.

- In general the Alaskan hatchery program is very stable. Eggtakes and release numbers are very similar to prior years. The record contribution to common property fisheries is largely due to the numeric impact of the poor pink return to southeast Alaska.
- The Board of Fisheries established guideline harvest percentages for each commercial gear group to allocate the harvest of enhanced salmon in southeast Alaska. If, over a period of time, allocation percentages are not met, actions must be taken to correct the imbalance. 2000 was the second consecutive year that corrective actions were necessary to help increase the troll harvest. The joint Northern and Southern Regional Planning teams are working on solving this inequity.
- Operations of Crystal Lake Hatchery were contracted by the State of Alaska to the Southern Southeast Regional Aquaculture Association.
- Hatcheries have largely achieved full utilization of their salmon carcasses. A new technique of processing carcasses into a liquid fish product, hydrolysate, was used successfully at several sites in southeast Alaska. The product is used in animal feeds.
- The Prince William Sound enhanced pink salmon harvest was the largest single pink salmon harvest in Alaska in 2000 and was very important to processors in helping maintain pink salmon market share.
- Almost 15% of the common property sockeye salmon caught in Cook Inlet were from Cook Inlet hatcheries, with a preliminary value of more than \$1.2 million.
- The preliminary 2000 Kodiak enhanced salmon harvest of 4.5 million fish represented more than 31% of the total Kodiak commercial harvest. Enhancement project contributions provided 40% of the total coho salmon harvest.

- The Arctic-Yukon-Kuskokwim region was faced with disastrous salmon returns in 2000. Ocean carrying capacity concerns are one of the reasons being suggested for this decline. Studies are being undertaken to look at this issue and most hatcheries are otolith marking their releases which will aid in the high-seas research.

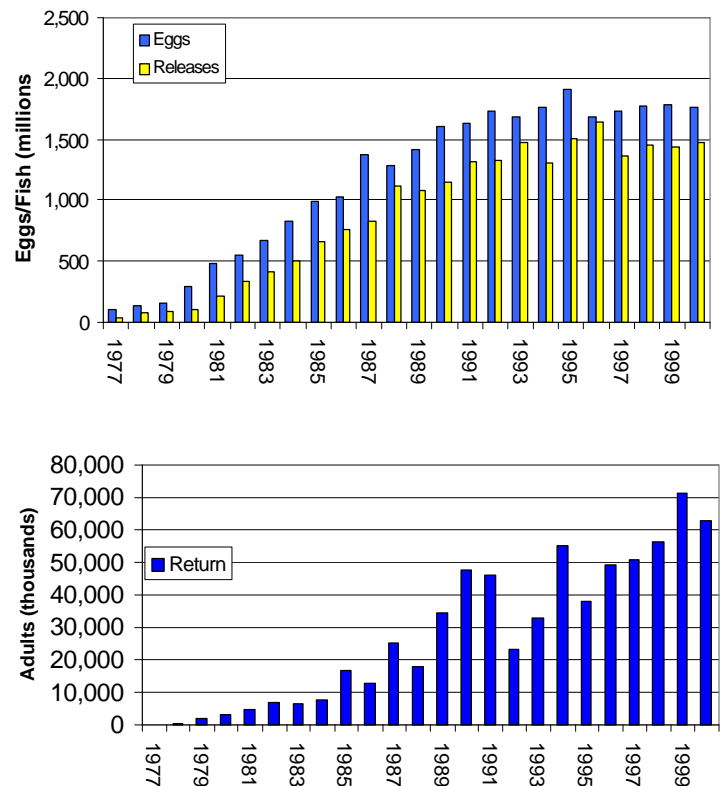


Figure 1. Total egg takes, releases and returns to the enhancement program in 1976–2000.

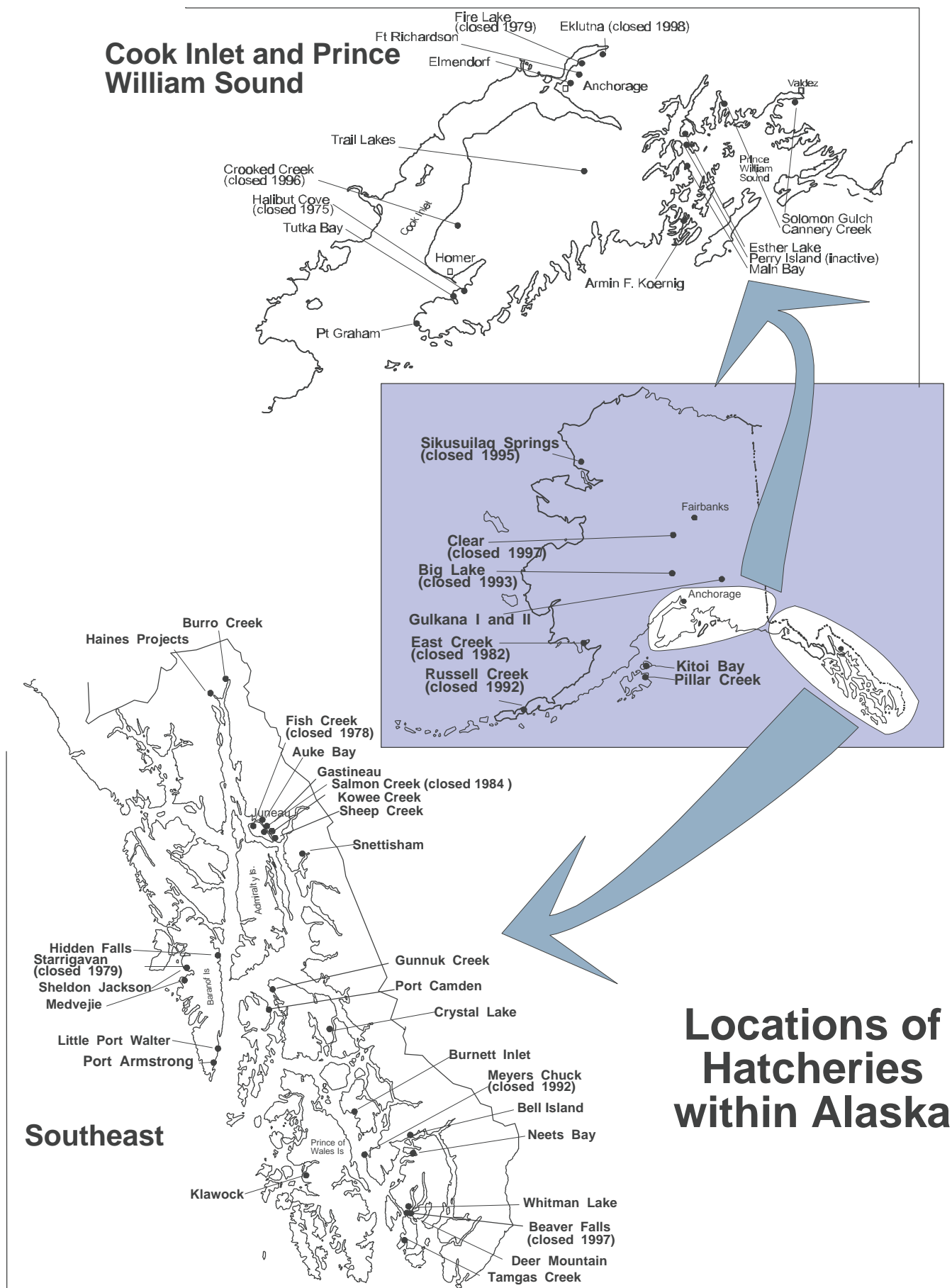


Figure 2. Locations of Alaska hatcheries.

Table 1. Total egg takes, releases, and returns to the Alaska salmon enhancement program in 2000.

Estimated egg takes from Alaska hatcheries, in millions, 2000.

Region	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	62.68	463.23	18.67	9.18	17.40	0.09	571.24
Prince William Sound	676.57	81.92	3.68	0.00	25.68	0.00	787.86
Cook Inlet	156.19	0.00	3.44	1.33	23.50	3.23	187.70
Kodiak/Alaska Peninsula	178.15	30.58	2.39	0.12	7.56	0.00	218.80
Totals	1,073.59	575.73	28.18	10.63	74.14	3.32	1,765.60

Estimated releases from Alaska hatcheries, in millions, 2000.

Region	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	89.15	385.01	14.00	7.45	9.89	0.06	505.56
Prince William Sound	586.61	100.35	2.00	0.00	30.64	0.00	719.60
Cook Inlet	66.26	0.00	1.65	1.74	13.43	1.84	84.93
Kodiak/Alaska Peninsula	137.70	22.33	1.65	0.00	5.86	0.00	167.55
Totals	879.72	507.69	19.31	9.19	59.81	1.90	1,477.63

Total returns attributed to Alaska hatcheries and enhancement projects, 2000.

Region	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast	630,889	13,575,643	733,078	133,384	430,469	65	15,503,528
Prince William Sound	34,458,679	4,784,279	625,680	1,730	598,570	0	40,468,938
Cook Inlet	1,343,141	0	115,849	24,292	480,505	116,434	2,080,221
Kodiak/Alaska Peninsula	3,962,534	338,214	156,480	0	566,344	0	5,023,572
Totals	40,395,243	18,698,136	1,631,087	159,406	2,075,888	116,499	63,076,259



Interior of Tutka Hatchery



Unloading at Tutka Lagoon

Table 2. Alaska enhancement/common property commercial harvest of enhanced fish, in thousands, 2000.

Area	Harvest ^a	Chinook	Sockeye	Coho	Pink	Chum	Total
Southeast	Total Commercial Harvest	230	1,220	1,970	20,270	15,850	39,540
	Total Cost Recovery Harvest	37	114	290	248	4,337	5,026
	Common Property Harvest	193	1,106	1,680	20,022	11,513	34,514
	Enhanced Fish Harvested	57	177	338	191	8,366	9,129
	% Enhanced in Total CP Harvest ^b	29.7%	16.0%	20.1%	1.0%	72.7%	26.5%
Prince William Sound	Total Commercial Harvest	30	1,430	720	37,910	5,090	45,180
	Total Cost Recovery Harvest	0	0	25	11,090	1,723	12,838
	Common Property Harvest	30	1,430	695	26,820	3,367	32,342
	Enhanced Fish Harvested	0	490	454	21,951	2,967	25,862
	% Enhanced in Total CP Harvest	0.0%	34.3%	65.3%	81.8%	88.1%	80.0%
Cook Inlet	Total Commercial Harvest	10	1,570	240	1,530	210	3,560
	Total Cost Recovery Harvest	0	95	0	1,044	0	1,138
	Common Property Harvest	10	1,475	240	486	210	2,422
	Enhanced Fish Harvested	1	216	8	9	0	233
	% Enhanced in Total CP Harvest	8.3%	14.7%	3.3%	1.8%	0.0%	9.6%
Kodiak	Total Commercial Harvest	10	2,910	330	9,920	1,190	14,360
	Total Cost Recovery Harvest	0	0	0	0	0	0
	Common Property Harvest	10	2,910	330	9,920	1,190	14,360
	Enhanced Fish Harvested	0	460	133	3,660	304	4,557
	% Enhanced in Total CP Harvest	0.0%	15.8%	40.4%	36.9%	25.5%	31.7%
Chignik/Aleutian Islands/ Alaska Peninsula	Total Commercial Harvest	10	5,740	460	4,010	1,270	11,490
	Enhanced Fish Harvested	0	0	0	0	0	0
	% Enhanced in Total CP Harvest	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bristol Bay	Total Commercial Harvest	20	20,530	130	60	380	21,120
	Enhanced Fish Harvested	0	0	0	0	0	0
	% Enhanced in Total CP Harvest	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Arctic-Yukon-Kuskokwim	Total Commercial Harvest	40	110	350	170	230	900
	Enhanced Fish Harvested	0	0	0	0	0	0
	% Enhanced in Total CP Harvest	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	Total Commercial Harvest	350	33,510	4,200	73,870	24,220	136,150
	Total Cost Recovery Harvest	37	209	315	12,381	6,060	19,002
	Common Property Harvest	313	33,301	3,885	61,489	18,160	117,148
	Enhanced Fish Harvested	58	1,343	933	25,810	11,637	39,781
	% Enhanced in Total CP Harvest	18.6%	4.0%	24.0%	42.0%	64.1%	34.0%

^a Total commercial harvest includes fish caught by all commercial gear types, which includes cost recovery harvested fish.

^b CP = common property



Totem at Tamgas Creek Hatchery

Table 3. Fishery enhancement program time line of events.

Year	Event	Number of State	Number of Private Nonprofit	Number of Federal
1934	Federal research station Little Port Walter constructed			1
1950	Federal hatchery at Auke Creek constructed			2
1953	1 territorial hatchery constructed (Kitoi Bay)	1		
1954	1 territorial hatchery constructed (Deer Mountain)	2		
1958	1 territorial hatchery constructed (Ft. Richardson)	3		
1965	1 state hatchery constructed (Fire Lake)	4		
1969	1 state hatchery constructed (Crystal Lake)	5		
1971	Fisheries Rehabilitation, Enhancement and Development (FRED) Division created by Legislature			
1973	2 state hatcheries constructed (Crooked Creek and Gulkana)	7		
	State enhancement projects at Starrigavan and Halibut Cove started			
1974	2 state hatcheries constructed (Beaver Falls and East Creek) Legislature authorizes permits for private nonprofit hatchery operators to salmon ranch	9		
1975	4 PNP permits issued (Sheldon Jackson (#3), Port San Juan (#2), Perry Island (#1), and Sandy Bay (#4)) 2 state hatcheries constructed (Big Lake and Tutka)	11	4	
1976	AS 16.10.375 passed, designating regions for regional planning teams and enhancing salmon 1 state hatchery constructed (Elmendorf) 2 PNP permits issued (Burnett Inlet (#5) and Kowee Creek (#6))	12	6	
1977	1 PNP permit issued (Gunnuk Creek (#7)) 2 state hatcheries constructed (Klawock and Russell Creek) State enhancement project at Karluk Lake started	14	7	
1978	1 PNP permit issued (Whitman Lake (#8)) 2 state hatcheries constructed (Cannery Creek and Hidden Falls)	16	8	
1979	3 PNP permits issued (Sheep Creek (#11), Meyers Chuck (#10), Salmon Creek (#9)) 1 state hatchery constructed (Snetsisham) 1 state hatchery closed (Fire Lake)	17 16	11	
1980	1 PNP permit issued (Burro Creek (#12)) 2 state hatcheries constructed (Clear and Main Bay) 1 hatchery at Tamgas Creek constructed (Metlakatla Indian Community/BIA)	18	12	3
1981	1 state hatchery closed (East Creek) 2 state hatcheries constructed (Sikusuiq and Trail Lakes) 4 PNP permits issued (Medveje (#16), Port Armstrong (#13), Solomon Gulch (#15), Salmon Creek (#14)) 1 PNP permit revoked (Salmon Creek (#9))	17 19	16 15	
1982	2 PNP permits issued (Eklutna (#17) and Favorite Bay (#18))		17	
1983	3 PNP permits issued (Neets Bay (#19), Crittenden Creek (#22), and Esther (#20)) 1 state hatchery completed (Broodstock Development Center)	20	20	
1984	1 PNP permit issued (Santa Anna (#21))		21	
1985	1 PNP permit issued (Port Camden (#23))		22	
1986	1 PNP permit issued (Beaver Falls (#24))		23	
1987	1 PNP permit issued (Gastineau (#25))		24	
1988	Aquatic Farm Act signed; statute passes allowing contracting of hatchery operations 4 state hatcheries contracted to private sector (Kitoi Bay, Trail Lakes, Cannery Creek, Hidden Falls) 4 PNP permits issued (Hidden Falls (#28), Cannery Creek (#26), Trail Lakes (#27), Kitoi Bay (#29)) 1 state hatchery constructed (Pillar Creek) 2 PNP permits revoked (Sandy Bay (#4) and Salmon Creek (#14))	16 17	28 26	
1990	CSHB432 becomes law prohibiting finfish farming in Alaska 1 PNP permit issued (Bell Island (#30))		27	
1991	5 state hatcheries contracted to private sector (Main Bay (#31), Tutka, Gulkana (#39), Pillar Creek (#38), and Beaver Falls (#24)) — Beaver Falls and Tutka tallied elsewhere Portions of 6 state hatcheries paid for by private or federal funds	12	30	
1992	1 state hatchery closed (Russell Creek) 2 PNP permits issued (Haines projects (#34) and Port Graham (#33)) 1 PNP permit revoked (Meyers Chuck (#10)) FRED Division merged with the Commercial Fisheries Division to form the Commercial Fisheries Management and Development (CFMD) Division	11	32 31	

Table 3. Continued.

Year	Event	Number of State	Number of Private Nonprofit	Number of Federal
1993	3 state hatcheries transferred from CFMD Division to Sport Fish Division (Brood stock Development Center, Elmendorf, and Ft. Richardson) 2 state hatcheries contracted to private sector (Crooked Creek and Klawock) 1 state hatchery closed (Big Lake)	9 8		
1994	4 PNP permits issued (Tutka (#32), Crooked Creek (#35), Klawock (#36), Deer Mountain (#37)) 1 state hatchery contracted (Deer Mountain) Ft. Richardson Hatchery merged with Broodstock Development Center	7 6	35	
1995	1 PNP hatchery under new management (Klawock (#38)) 1 state hatchery transferred from CFMD Division to Sport Fish Division (Crystal Lake) 1 state hatchery closed (Sikusuiq)	5		
1996	1 state hatchery contracted (Snettisham (#39)) 1 state hatchery transferred from CFMD Division to Sport Fish Division (Clear) 3 PNP permits revoked (Crittenden Creek (#22), Santa Anna (#21), and Favorite Bay (#18))	4	36 33	
1997	1 state hatchery closed (Clear) 2 state contracted (PNP) hatcheries closed (Beaver Falls (#24), Crooked Creek (#35)) 1 PNP hatchery closed & reopened under new management (Burnett Inlet (#5, now #40))	3	31 31	
1998	1 PNP hatchery closed (Eklutna (#17))		30	
2000	1 state hatchery contracted to private sector (Crystal Lake Hatchery)	2	31	

Note: Perry Island, Kowee Creek, Port Camden and Bell Island are not active PNP sites (total = 27 active operational PNPs)



Port Graham Hatchery net pens

Table 4. Eggs taken at Alaska hatcheries in 2000, in millions.

Region/Operator/Location			Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast									
SSRAA	Whitman Lake			32.28	5.07	1.30			38.64
	Neets Bay			78.58	0.35				78.93
	Burnett Inlet				*		1.05		1.05
	Crystal Lake				0.21	1.59			1.80
NSRAA	Hidden Falls			85.36	4.69	1.40			91.46
	Medvejie Creek	0.31		43.89	0.38	3.18			47.76
	Haines projects			1.80					1.80
AKI	Port Armstrong	54.60			1.77				56.37
BCF	Burro Creek	listed with DIPAC chinook							0.00
DIPAC	Sheep Creek			33.93					33.93
	Gastineau	1.78		111.24	*	0.66			113.69
	Snettisham						15.89		15.89
KTHC	Deer Mountain				0.16	0.16		0.01	0.32
KNFC	Gunnuk Creek			71.56					71.56
POWHA	Klawock				2.41		0.39		2.80
SJC	Sheldon Jackson	5.89		4.29	0.11	0.04			10.33
MIC	Tamgas Creek			0.29	3.52	0.85	0.07		4.73
Federal	Little Port Walter	0.10						0.08	0.18
Southeast Totals			62.68	463.23	18.67	9.18	17.40	0.09	571.24
Prince William Sound									
PWSAC	Armin F. Koernig	159.20							159.20
	Wally Noerenberg	131.31		81.92	1.29				214.52
	Cannery Creek	150.77							150.77
	Main Bay						10.04		10.04
	Gulkana						15.64		15.64
VFDA	Solomon Gulch	235.30			2.39				237.69
Prince William Sound Totals			676.57	81.92	3.68	0.00	25.68	0.00	787.86
Cook Inlet									
PGHC	Port Graham	33.88					1.48		35.35
CIAA	Trail Lakes				0.79		22.03		22.81
	Tutka Bay	122.31							122.31
ADF&G	Elmendorf				1.03				1.03
	Ft. Richardson				1.63	1.33		3.23	6.18
Cook Inlet Totals			156.19	0.00	3.44	1.33	23.50	3.23	187.70
Kodiak									
KRAA	Kitoi Bay	178.15		30.58	2.28		0.59		211.60
	Pillar Creek				0.11	0.12	6.97		7.20
Kodiak Totals			178.15	30.58	2.39	0.12	7.56	0.00	218.80
Statewide Totals			1,073.59	575.73	28.18	10.63	74.14	3.32	1,765.60

In 2000, no eggs taken at Auke Creek hatchery.

If eggs were transferred, they are listed by the hatchery that received them.

* eggtakes incomplete

Table 5. Alaska hatchery 2000 releases, in millions of fish.

Region/Operator/Location		Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast								
SSRAA	Whitman Lake			0.34	1.03			1.37
	Kendrick Bay		10.17					10.17
	Nakat Inlet		8.38	0.23				8.61
	Earl West Cove		8.20	0.24				8.45
	Coop Earl West Cove				0.44			0.44
	Neets Bay		65.38	3.10				68.48
	Nakat Inlet		7.57					7.57
	Burnett Inlet			0.16				0.16
	Hugh Smith					0.38		0.38
	Neck Lake			1.70				1.70
	Crystal Lake			0.15	0.71			0.86
	Neets Bay				0.42			0.42
NSRAA	Hidden Falls		38.69	1.90	1.23			41.82
	Takatz		36.26					36.26
	Medveje Creek	0.18	4.93	0.21	2.28			7.59
	Deep Inlet		34.15					34.15
	Deer Lake	No releases in 2000						0.00
	Haines projects		1.59					1.59
AKI	Port Armstrong	85.64		1.36				87.00
DIPAC	Sheep Creek			0.09				0.09
	Gastineau	1.68	27.88	0.81	0.21			30.58
	Amalga Harbor		53.22					53.22
	Boat Harbor		9.01					9.01
	Limestone Inlet		15.10					15.10
	Skagway				0.09			0.09
	Fish Cr/Auke Bay/Twin L				0.23			0.23
	Snettisham					9.15		9.15
KTHC	Deer Mountain			0.21	0.09		0.01	0.30
KNFC	Gunnuk Creek		61.11	0.03				61.14
SJC	Sheldon Jackson	1.65	3.38	0.08	0.09			5.20
MIC	Tamgas Creek			2.93	0.49	0.00		3.42
POWHA	Klawock			0.44		0.36	0.05	0.80
Federal	Little Port Walter				0.13			0.13
Southeast Totals		89.15	385.01	14.00	7.45	9.89	0.06	505.56
Prince William Sound								
PWSAC	Armin F. Koernig	142.54						142.54
	Wally Noerenberg	116.07	76.31	0.19				192.56
	Port Chalmers		24.05					24.05
	Whittier			0.05				0.05
	Cordova			0.09				0.09
	Chenega			0.05				0.05
	Gulkana I and II					22.34		22.34
	Cannery Creek	132.24						132.24
	Main Bay					8.30		8.30
VFDA	Solomon Gulch	195.76		1.63				197.39
Prince William Sound Totals		586.61	100.35	2.00	0.00	30.64	0.00	719.60
Cook Inlet								
PGHC	Port Graham	1.14				0.91		2.05
CIAA	Trail Lakes- Bear Creek/Lake			0.42		7.23		7.65
	Kirschner/Leisure/Hazel					3.21		3.21
	Big Lake					0.85		0.85
	Hidden Lake					1.24		1.24
	Tutka Bay	65.12						65.12
ADF&G	Elmendorf				1.37		0.17	1.54
	Ft. Richardson			1.24	0.38		1.67	3.29
Cook Inlet Totals		66.26	0.00	1.65	1.74	13.43	1.84	84.93
Kodiak								
KRAA	Kitoy Bay	137.70	22.33	1.59		0.25		161.88
	Pillar Creek			0.06		5.61		5.67
Kodiak Totals		137.70	22.33	1.65	0.00	5.86	0.00	167.55
Statewide Totals		879.72	507.69	19.31	9.19	59.81	1.90	1,477.63

In 2000, no releases at Auke Creek, Bell Island, Burro Creek, and Eklutna hatcheries

Table 6. Estimated adult returns, by species, to Alaska enhancement projects in 2000, including common property harvests, as reported by operators.

Region/Operator/Location			Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast									
SSRAA	Whitman Lake			447,832	34,314	16,390			498,536
	Neets Bay			2,615,403	158,925	1,154			2,775,482
	Earl West Cove Coop					11,376			11,376
	Neets Bay/Crystal Coop					1,665			1,665
	Burnett Inlet (under SSRAA)				63,168		218,167		281,335
	Crystal Lake				2,421	9,732			12,153
NSRAA	Hidden Falls			3,100,449	168,989	36,566			3,306,004
	Medvejie Creek			3,558,544	19,806	29,614			3,607,964
	Haines projects			14,953					14,953
AAI	Burnett Inlet (under AAI)			42,390					42,390
AKI	Port Armstrong	304,618			44,590				349,208
BCF	Burro Creek								0
DIPAC	Sheep Creek			450,861	2,301				453,162
	Gastineau	140,511		2,573,239	89,774	4,523			2,808,047
	Snettisham						194,433		194,433
	Chilkat L Coop						8,131		8,131
KNFC	Gunnuk Creek			738,557					738,557
SJC	Indian River	185,660		33,165	584	153			219,562
POWHA	Klawock				72,244		9,678		81,922
MIC	Tamgas Creek			250	69,175	17,686	60		87,171
Federal	Auke Creek				85				85
	Little Port Walter	100				2,920		40	3,060
KTHC	Deer Mountain				6,702	1,605		25	8,332
Southeast Totals			630,889	13,575,643	733,078	133,384	430,469	65	15,503,528
Prince William Sound									
PWSAC	Armin F. Koernig	6,905,515		420,206					7,325,721
	Wally Noerenberg	8,695,768		4,364,073	152,878	1,730			13,214,449
	Cannery Creek	6,506,730							6,506,730
	Main Bay						347,291		347,291
	Gulkana						251,279		251,279
VFDA	Solomon Gulch	12,350,666			472,802				12,823,468
Prince William Sound Totals			34,458,679	4,784,279	625,680	1,730	598,570	0	40,468,938
Cook Inlet									
PGHC	Port Graham	89,838					17,613		107,451
CIAA	Eklutna						8,123		8,123
	Trail Lakes				9,822		452,012		461,834
	Tutka	1,253,303					2,757		1,256,060
ADF&G	Elmendorf				53,290	19,483			72,773
	Ft. Richardson				52,737	4,809		116,434	173,980
Cook Inlet Totals			1,343,141	0	115,849	24,292	480,505	116,434	2,080,221
Kodiak									
KRAA	Kitoi Bay	3,962,534		338,214	145,846		53,083		4,499,677
	Fish Pass/Other						134,115		134,115
	Pillar Creek				10,634		379,146		389,780
Kodiak Totals			3,962,534	338,214	156,480	0	566,344	0	5,023,572
Statewide Totals			40,395,243	18,698,136	1,631,087	159,406	2,075,888	116,499	63,076,259

See Table 16 for list of acronyms used throughout this report.

Table 7. Projected adult returns, by species, to Alaska enhancement projects in 2001.

Region/Operator/Location	Pink	Chum	Coho	Chinook	Sockeye	Other	Total
Southeast							
SSRAA Whitman Lake			30,000	15,000			45,000
Earl West Cove		48,000	20,000	10,000			78,000
Nakat Inlet		232,000	15,000				247,000
Kendrick Bay		277,000					277,000
Neets Bay		1,575,400	160,000	4,700			1,740,100
Burnett Inlet (under SSRAA)			4,000				4,000
Neck Lake			75,000				75,000
Salmon					25,000		25,000
Virginia Lake					14,000		14,000
Hugh Smith Lake					34,000		34,000
McDonald Lake					168,000		168,000
Crystal Lake			3,500	8,100			11,600
NSRAA Hidden Falls		1,760,000	128,000	36,000			1,924,000
Medvejie Creek		850,000	64,800	52,800			967,600
Haines projects		11,072			8,832		19,904
AKI Port Armstrong	2,569,163		108,664				2,677,827
BCF Burro Creek				50			50
DIPAC Gastineau	58,867	346,905	80,596	5,500			491,868
Amalga Harbor		826,092					826,092
Boat Harbor		99,591					99,591
Limestone Inlet		139,596					139,596
Sheep Creek			7,282				7,282
Snettisham					353,000		353,000
Sweetheart Lake					2,500		2,500
Taku River					10,850		10,850
Stikine River					26,300		26,300
KTHC Deer Mountain			10,903	722		40	11,665
KNFC Gunnuk Creek		213,542	54				213,596
Southeast Cove		693,847					693,847
SJC Indian River	66,003	11,920	1,596	157			79,676
POWHA Klawock			8,800				8,800
Southeast Totals	2,694,033	7,084,965	718,195	133,029	642,482	40	11,272,704
Prince William Sound							
PWSAC Armin F. Koernig	6,414,000	200,000					6,614,000
Wally Noerenberg	5,223,000	1,700,000	38,000	500			6,961,500
Cannery Creek	5,951,000						5,951,000
Main Bay					597,900		597,900
Gulkana					459,000		459,000
VFDA Solomon Gulch	8,789,789		147,929				8,937,718
Prince William Sound Totals	26,377,789	1,900,000	185,929	500	1,056,900		29,521,118
Cook Inlet							
PGHC Port Graham	40,000				7,281		47,281
CIAA Eklutna					3,000		3,000
Trail Lakes							0
Hazel/Leisure/ Chenik					150,800		150,800
Big Lake					20,000		20,000
Kirschner Lake					23,100		23,100
Packers Lake					29,200		29,200
Hidden Lake					110,800		110,800
Bear Lake					15,200		15,200
Tustumena Lake					688,000		688,000
Grouse Lake					11,100		11,100
Tutka Bay	1,823,000				6,000		1,829,000
ADF&G Elmendorf				15,800			15,800
Ft. Richardson			83,950	19,900		113,013	216,863
Cook Inlet Totals	1,823,000	0	83,950	35,700	1,057,200	113,013	3,112,863
Kodiak							
KRAA Kitoi Bay	4,196,437	92,472	114,767		32,500		4,436,176
Pillar Creek			5,500		353,300		358,800
Kodiak Totals	4,196,437	92,472	120,267	0	385,800	0	4,794,976
Statewide Totals	35,091,259	9,077,437	1,108,341	169,229	3,142,382	113,053	48,701,661

Table 8. Cumulative state loans and enhancement funds returned to associations and annual fish sales for private nonprofit hatcheries.

Region/Corporation (number of permits)	State Loans				Enhancement Funds Generated Through Assessments Returned to Associations via Contract		2000 Operator Reported Revenues ¹
	For Capital Construction		For Operations		FY 2001	Cumulative	
	FY 00	Cumulative	FY 00	Cumulative			
Southern Southeast							
SSRAA (Southern Southeast Regional Aquaculture Association) — (3)		\$ 9,393,000		\$ 4,492,309	\$1,086,633	\$29,967,405 note 2	\$ 5,959,674
AAI (Alaska Aquaculture, Inc.) — (0) ⁴		\$ 3,469,418		\$ 4,678,794		NA	
MCAA (Meyers Chuck Aquaculture Association) — (0) ⁴		\$ 10,000				NA	
POWHA (Prince of Wales Hatchery Association) — (1)		\$ 400,000	\$ 250,000	\$ 1,110,000			\$ 120,000
Northern Southeast							
NSRAA (Northern Southeast Regional Aquaculture Association) — (4)		\$ 2,724,265		\$ 1,816,496	\$1,552,804	\$21,113,505 note 2	\$ 3,200,893
AKI (Armstrong-Keta, Inc.) — (1)	\$499,500	\$ 3,565,145		\$ 4,087,595		NA	\$ 129,030
BCF (Burro Creek Farms, Inc.) — (1)		\$ 143,500		\$ 290,875		NA	
DIPAC (Douglas Island Pink and Chum, Inc.) — (4)		\$ 9,139,000		\$13,664,000		NA	\$ 6,192,005
KNFC (Kake Nonprofit Fisheries Corporation) — (1)		\$ 2,858,724	\$ 283,000	\$ 6,128,058		NA	\$ 1,394,922
SJC (Sheldon Jackson College) — (1)		\$ 423,624				NA	\$ 20,865
THFDC (Tlingit and Haida Fisheries Development Corporation) — (0) ⁴		\$ 1,464,000		\$ 89,860		NA	
Prince William Sound							
PWSAC (Prince William Sound Aquaculture Corporation) — (3)		\$24,475,419		\$ 5,585,500	\$ 915,639	\$13,066,745 note 3	\$ 8,041,044
VFDA (Valdez Fisheries Development Association) — (1)	\$251,000	\$ 3,794,030		\$ 8,024,246		NA	\$ 2,661,749
Cook Inlet							
PGHC (Port Graham Hatchery Corporation) — (1)	\$280,000	\$ 515,000				NA	
CIAA (Cook Inlet Aquaculture Association) — (4)		\$ 1,438,881	\$ 250,000	\$ 1,833,369	\$ 469,005	\$19,571,026 note 3	\$ 1,126,442
Kodiak							
KRAA (Kodiak Regional Aquaculture Association) — (2)					\$ 801,306	\$10,809,078 note 3	
Chignik							
CRAA (Chignik Regional Aquaculture Association) — (0)					\$ 476,786	\$ 2,538,309 note 3	
Statewide Totals	\$1,030,500	\$63,814,006	\$ 783,000	\$51,801,102	\$5,302,172	\$92,413,897	\$28,846,624

Sources: Becky Fredrick and Geoff Whistler, Department of Commerce and Economic Development — Fisheries Enhancement Revolving Loan Fund Program Overview; PNP annual reports.

¹ Data is preliminary and includes all reported revenue sources: cost recovery, carcass sale, donations, grants, etc.

² A 3% mandatory assessment tax was collected from commercial fishermen.

³ A 2% mandatory assessment tax was collected from commercial fishermen.

⁴ A struck through (example) corporation name indicates that the corporation is no longer active.

NA = not applicable

FY 00 = fiscal year (July 1, 1999–June 30, 2000)

Table 9(a). Summary of salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)	Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)
1966	NA	1	0	1984	829	506	7,689
1967	NA	1	0	1985	995	659	16,650
1968	NA	1	0	1986	1,026	762	12,808
1969	NA	1	0	1987	1,369	824	25,354
1970	NA	1	0	1988	1,280	1,114	17,820
1971	NA	1	0	1989	1,418	1,087	34,530
1972	NA	2	0	1990	1,603	1,154	47,422
1973	2	0	0	1991	1,634	1,319	46,109
1974	8	2	0	1992	1,725	1,323	23,187
1975	29	7	18	1993	1,685	1,475	32,609
1976	56	9	38	1994	1,758	1,302	55,172
1977	96	38	175	1995	1,913	1,503	38,062
1978	129	73	334	1996	1,687	1,638	49,229
1979	152	85	1,962	1997	1,734	1,363	50,839
1980	292	96	3,024	1998	1,776	1,453	56,468
1981	475	212	4,885	1999	1,791	1,435	71,276
1982	548	331	6,939	2000	1,762	1,476	62,960
1983	668	412	6,560	Total	28,439	21,664	672,117

Table does not include nonanadromous species.

Table 9(b). Summary of pink salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)	Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)
1974	4.95	0.45		1987	840.12	442.65	21,960.0
1975	15.46	5.22	17.55	1988	735.70	729.64	13,838.0
1976	23.44	4.45	16.20	1989	974.89	674.75	31,754.0
1977	66.39	18.43	175.00	1990	1,013.89	811.19	41,207.0
1978	79.26	49.86	321.00	1991	998.07	862.08	38,132.0
1979	91.00	59.56	1,591.00	1992	1,076.93	797.49	14,879.0
1980	173.80	64.28	2,310.00	1993	1,030.83	919.12	20,693.0
1981	327.60	134.66	4,371.00	1994	1,076.28	790.12	41,489.0
1982	343.96	218.18	6,610.00	1995	1,162.33	920.54	25,415.0
1983	406.39	263.80	5,939.00	1996	929.06	998.87	29,298.0
1984	442.63	331.94	5,298.00	1997	1,064.45	772.37	33,956.0
1985	603.56	365.90	14,158.00	1998	1,121.33	872.53	38,651.5
1986	511.33	484.00	9,044.00	1999	1,091.71	877.77	51,972.9
				2000	1,073.59	879.72	40,395.2

Table 9(c). Summary of chum salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)	Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)
1974	1.42	0.01		1987	379.72	298.49	1,930.0
1975	4.97	0.97		1988	391.63	288.35	2,490.0
1976	7.16	2.37		1989	293.20	310.22	1,347.0
1977	7.61	2.59	0.80	1990	450.20	241.23	2,039.0
1978	11.79	4.13	2.81	1991	480.21	365.19	2,181.0
1979	24.30	6.83	5.73	1992	510.00	427.54	3,089.0
1980	73.92	13.21	16.10	1993	495.62	468.53	6,709.0
1981	87.36	45.72	53.00	1994	528.81	407.22	8,996.0
1982	125.61	63.15	153.00	1995	595.93	473.30	9,808.0
1983	170.12	85.56	301.00	1996	589.76	535.44	16,353.0
1984	269.19	107.83	1,809.00	1997	523.58	485.44	12,595.0
1985	243.61	201.04	1,404.00	1998	517.11	479.20	13,468.2
1986	374.08	181.64	1,931.00	1999	571.11	460.86	15,071.8
				2000	575.73	507.69	18,698.1

Table 9(d). Summary of coho salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)	Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)
1966	NA	0.51		1983	16.97	8.95	96.3
1967	NA	0.93		1984	21.07	10.85	179.5
1968	NA	0.85		1985	20.43	14.87	307.6
1969	NA	0.83		1986	23.71	13.45	646.8
1970	NA	0.75		1987	25.52	14.92	450.6
1971	NA	0.44		1988	28.06	18.79	250.8
1972	NA	1.66		1989	22.88	16.35	488.6
1973	NA	1.94		1990	21.96	17.63	939.6
1974	NA	1.91		1991	23.00	14.35	1,251.0
1975	7.07	3.60	0.10	1992	21.42	14.31	1,378.0
1976	5.03	3.30	22.00	1993	25.06	14.59	915.0
1977	4.77	4.74		1994	27.56	17.78	1,306.0
1978	4.89	3.18		1995	26.59	20.76	1,312.0
1979	4.07	2.56	48.56	1996	30.12	21.11	1,087.0
1980	4.05	2.23	21.21	1997	35.98	22.57	1,456.0
1981	7.78	3.37	54.96	1998	30.09	21.12	1,364.8
1982	16.10	3.29	108.20	1999	25.59	22.03	1,553.0
				2000	28.18	19.31	1,631.1

Table 9(e). Summary of chinook salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)	Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)
1966	NA	0.17		1983	7.10	1.54	13.3
1967	NA	0.54		1984	10.02	3.68	20.8
1968	NA	0.08		1985	19.37	4.23	26.2
1969	NA	0.10		1986	15.84	5.95	40.2
1970	NA	0.05		1987	16.65	7.91	93.2
1971	NA	0.22		1988	17.64	8.91	74.7
1972	NA	0.18		1989	14.50	8.09	75.9
1973	NA	0.33		1990	17.41	10.02	115.9
1974	0.16	0.55		1991	19.99	6.87	171.7
1975	0.53	0.16		1992	13.01	9.77	130.9
1976	1.42	0.25		1993	11.81	11.55	111.9
1977	3.02	1.01		1994	13.16	9.82	125.9
1978	2.37	0.93	0.04	1995	13.62	6.91	170.6
1979	1.88	1.22	3.22	1996	11.19	7.05	171.0
1980	2.57	0.79	6.57	1997	11.68	7.33	150.0
1981	1.34	0.67	5.12	1998	12.75	8.08	104.2
1982	3.23	0.94	11.96	1999	12.00	8.00	112.3
				2000	10.63	9.19	159.4

Table 9(f). Summary of sockeye salmon production from Alaska hatcheries and enhancement projects.

Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)	Year	Egg Takes (millions)	Fry Releases (millions)	Total Returns (thousands)
1972	NA	0.02		1986	101.29	77.34	1,146.0
1973	1.55	0.19		1987	106.52	60.26	920.0
1974	1.56	0.51		1988	107.24	68.72	1,166.0
1975	7.93	1.00		1989	112.05	77.37	864.0
1976	23.89	2.17		1990	99.71	74.38	3,120.0
1977	18.71	13.81	0.32	1991	113.00	70.08	4,373.0
1978	35.14	16.40	13.19	1992	103.68	74.34	3,710.0
1979	30.35	17.10	318.00	1993	122.05	60.74	4,180.0
1980	37.52	15.18	670.00	1994	112.18	76.73	3,255.0
1981	50.81	27.56	401.00	1995	114.85	81.30	1,356.0
1982	58.85	45.29	56.30	1996	127.29	75.19	2,320.0
1983	67.88	52.54	210.10	1997	98.07	75.48	2,682.0
1984	86.39	51.78	382.20	1998	95.05	71.68	2,879.5
1985	108.36	72.51	754.40	1999	90.54	66.52	2,566.3
				2000	74.14	59.81	2,075.9

NA = not available

Table 10(a). Summary of statewide salmon production (all species) from private nonprofit hatcheries in Alaska, as reported by operators.

Year	Egg Take	Fry Release	Total Return	Special Harvest	Cost Recovery Revenue
1975	8,091,395				
1976	16,622,881	3,719,741			
1977	37,008,186	12,360,354	160,147	109,000	
1978	37,346,167	26,796,238	160,967	215,000	
1979	54,295,879	29,131,774	356,501	253,000	\$272,000
1980	125,740,500	35,587,200	1,506,466	346,000	\$482,000
1981	223,600,000	101,600,000	2,563,913	856,371	\$1,274,640
1982	234,390,000	126,990,000	5,340,720	1,364,178	\$1,170,000
1983	261,310,000	170,375,000	4,285,989	885,800	\$671,000
1984	372,880,000	217,730,000	4,764,144	1,043,490	\$1,655,000
1985	469,960,000	302,320,000	8,106,485	1,853,500	\$1,902,000
1986	522,200,000	380,890,000	7,903,526	1,212,280	\$1,861,000
1987	868,250,000	461,170,000	19,096,871	4,184,480	\$6,562,000
1988	1,045,620,000	819,800,000	14,343,654	2,497,700	\$8,789,000
1989	1,108,700,000	860,190,000	24,044,699	15,012,150	\$16,611,000
1990	1,249,160,000	925,210,000	42,405,072	10,387,600	\$12,898,000
1991	1,325,990,000	1,087,070,000	40,264,749	13,169,720	\$6,317,000
1992	1,427,710,000	1,075,180,000	18,174,631	7,254,980	\$10,239,000
1993	1,613,220,000	1,426,480,000	27,781,066	4,847,700	\$7,340,000
1994	1,725,820,000	1,267,520,000	52,022,989	15,906,400	\$17,104,000
1995	1,876,933,100	1,173,754,300	37,592,634	9,554,400	\$12,924,000
1996	1,735,200,000	1,631,820,000	48,946,278	14,657,100	\$14,325,000
1997	1,712,886,200	1,348,524,117	50,629,198	19,351,900	\$16,111,000
1998	1,759,285,000	1,443,568,066	56,153,697	15,651,450	\$14,535,000
1999	1,777,528,000	1,427,723,000	71,140,236	22,608,400	\$21,759,078
2000	1,750,403,612	1,469,325,950	62,742,580	19,007,165	\$26,065,000
Cumulative Hatchery Revenues from Special Harvests:					\$200,866,718

Table 10(b). Summary of pink salmon production from private nonprofit hatcheries in Alaska.

Year	Egg Take	Fry Release	Total Return	Special Harvest
1975	8,002,395			
1976	16,251,456	3,653,666		
1977	35,383,112	12,093,184	160,147	109,000
1978	34,851,807	25,732,238	160,397	215,000
1979	46,582,015	28,204,674	356,498	253,000
1980	98,030,000	31,690,000	1,504,878	346,000
1981	188,000,000	78,800,000	2,491,345	838,000
1982	185,170,000	102,550,000	5,253,378	1,359,000
1983	185,520,000	126,890,000	4,086,552	843,000
1984	241,760,000	159,340,000	3,637,927	583,000
1985	339,910,000	199,490,000	7,404,789	1,699,000
1986	324,570,000	271,960,000	6,767,984	949,000
1987	618,350,000	299,260,000	17,963,785	3,625,000
1988	645,100,000	625,820,000	12,257,959	2,008,000
1989	805,870,000	553,090,000	22,561,056	14,529,000
1990	788,710,000	684,790,000	39,919,911	9,846,000
1991	830,860,000	704,330,000	37,081,341	12,367,000
1992	882,920,000	648,470,000	13,200,079	5,977,000
1993	1,028,760,000	919,680,000	19,844,303	2,740,000
1994	1,075,310,000	787,440,000	40,939,000	13,384,000
1995	1,162,330,000	620,540,000	25,415,000	6,819,000
1996	929,060,000	998,870,000	29,298,000	9,401,000
1997	1,064,450,000	772,370,000	33,956,000	14,027,000
1998	1,121,330,000	872,530,000	38,651,500	10,693,000
1999	1,091,705,000	877,768,000	51,973,000	17,623,000
2000	1,073,593,526	879,721,652	40,395,243	12,380,926

Table 10(c). Summary of chum salmon production from private nonprofit hatcheries in Alaska.

Year	Egg Take	Fry Release	Total Return	Special Harvest
1975	77,000			
1976	347,275	66,075		
1977	1,614,574	264,068		
1978	1,684,930	1,064,000	543	
1979	6,782,864	924,400	3	
1980	26,850,000	3,340,000	1,588	
1981	32,400,000	21,900,000	20,518	12,230
1982	46,130,000	23,590,000	22,133	378
1983	68,790,000	41,770,000	126,783	35,400
1984	122,170,000	54,780,000	1,001,449	437,000
1985	119,450,000	97,880,000	525,088	123,000
1986	181,450,000	100,490,000	779,637	189,000
1987	234,500,000	149,790,000	955,294	499,000
1988	369,610,000	186,050,000	1,835,164	470,000
1989	267,030,000	286,770,000	1,102,191	298,000
1990	425,410,000	216,860,000	1,632,539	370,000
1991	441,530,000	359,270,000	1,958,538	404,000
1992	495,360,000	394,260,000	3,078,557	706,000
1993	457,690,000	451,720,000	6,386,907	1,782,000
1994	520,120,000	402,220,000	8,783,080	2,128,000
1995	590,160,000	463,440,000	9,799,995	2,252,000
1996	651,220,000	533,690,000	16,204,661	4,782,000
1997	516,711,200	477,058,117	13,250,198	4,643,000
1998	512,535,000	478,798,066	13,423,262	4,355,450
1999	567,706,000	460,412,000	15,072,000	4,361,000
2000	572,211,475	507,693,550	18,698,136	6,060,360

Table 10(d). Summary of coho salmon production from private nonprofit hatcheries in Alaska.

Year	Egg Take	Fry Release	Total Return	Special Harvest
1975	12,000			
1976	24,150			
1977	10,500	3,102		
1978	809,430	0	27	
1979	931,000	2,700	0	
1980	666,500	557,200	0	
1981	2,800,000	900,000	52,050	6,141
1982	2,870,000	700,000	61,709	2,100
1983	6,200,000	1,570,000	71,781	7,400
1984	6,300,000	3,230,000	121,112	22,300
1985	4,100,000	4,220,000	168,427	29,500
1986	8,300,000	4,280,000	344,749	73,000
1987	9,280,000	5,440,000	169,149	58,300
1988	13,310,000	4,720,000	122,186	11,000
1989	13,740,000	9,040,000	305,048	88,700
1990	14,470,000	10,730,000	691,680	141,000
1991	16,120,000	11,500,000	1,001,338	368,000
1992	16,510,000	10,280,000	1,070,086	378,000
1993	19,150,000	11,100,000	657,208	144,000
1994	24,280,000	12,640,000	1,189,140	240,000
1995	21,535,600	13,868,300	966,222	319,000
1996	27,700,000	19,570,000	1,041,009	253,000
1997	25,930,000	18,044,000	921,000	258,000
1998	23,370,000	16,530,000	1,123,598	342,000
1999	20,469,000	17,730,000	1,452,445	372,000
2000	22,002,032	15,134,992	1,455,885	320,141

Table 10(e). Summary of chinook salmon production from private nonprofit hatcheries in Alaska.

Year	Egg Take	Fry Release	Total Return	Special Harvest
1980	194,000			
1981	400,000			
1982	220,000	150,000	3,500	2,700
1983	800,000	140,000	872	
1984	2,730,000	380,000	3,656	1,190
1985	6,180,000	720,000	8,181	2,000
1986	6,580,000	4,050,000	11,156	1,280
1987	4,550,000	5,940,000	8,643	2,180
1988	7,010,000	2,210,000	23,246	8,700
1989	7,330,000	3,270,000	36,572	17,750
1990	8,790,000	4,700,000	59,726	22,100
1991	10,000,000	3,900,000	69,926	25,700
1992	7,400,000	6,210,000	42,401	22,980
1993	4,900,000	6,920,000	53,843	25,700
1994	6,030,000	5,510,000	57,969	15,400
1995	6,260,000	3,600,000	98,024	28,400
1996	7,900,000	4,410,000	96,928	34,100
1997	7,806,000	4,519,000	85,000	31,900
1998	6,970,000	5,080,000	75,818	19,000
1999	7,109,000	5,293,000	76,791	16,400
2000	8,453,504	6,961,046	117,428	37,201

Table 10(f). Summary of sockeye salmon production from private nonprofit hatcheries in Alaska.

Year	Egg Take	Fry Release	Total Return	Special Harvest
1985	310,000			
1986	1,295,700	102,000		
1987	1,570,000	750,000		
1988	10,590,000	1,000,000	66,499	
1989	14,740,000	8,030,000	39,832	78,700
1990	11,780,000	8,140,000	101,216	8,500
1991	27,480,000	8,070,000	153,606	5,020
1992	25,530,000	15,960,000	783,508	171,000
1993	102,720,000	37,060,000	838,805	156,000
1994	100,080,000	59,710,000	1,053,800	139,000
1995	96,647,500	72,306,000	1,313,393	136,000
1996	119,320,000	75,280,000	2,305,680	187,000
1997	97,989,000	76,533,000	2,417,000	392,000
1998	95,080,000	70,630,000	2,879,519	242,000
1999	90,539,000	66,520,000	2,566,000	236,000
2000	74,143,075	59,814,710	2,075,888	208,537

Note: Includes only data from private nonprofit hatcheries; does not include federal or state hatchery data.

Table 11. Alaska commercial salmon fishery harvest weights and prices, 2000.

Area/Species	Average Harvest	
	Weight (lb)	Price/lb.
Cook Inlet		
Chinook	25.3	1.21
Sockeye	6.8	0.85
Coho	7.2	0.40
Pink	2.5	0.14
Chum	8.1	0.18
Kodiak		
Chinook	14.9	0.75
Sockeye	5.7	0.85
Coho	8.0	0.50
Pink	3.3	0.12
Chum	8.2	0.20
Prince William Sound		
Chinook	20.6	2.50
Sockeye	6.5	1.00
Coho	8.8	0.40
Pink	3.3	0.10
Chum	8.1	0.30
Southeast		
Chinook	16.3	1.54
Sockeye	6.1	0.97
Coho	7.0	0.71
Pink	3.4	0.12
Chum	9.4	0.28

Data from Marianne McNair, ADF&G, as of 11/03/2000, based on total commercial fishery.

Table 12. Alaska state hatchery FY 00 operating budgets, in thousands of dollars.

Hatchery	FY 00	FY 00
	Authorized Total	Actual Total
Elmendorf Hatchery	\$ 622.30	\$ 633.70
Ft. Richardson Hatchery	\$1,242.60	\$1,304.50
Crystal Lake Hatchery	\$ 629.90	\$ 568.60

Data from Division of Sport Fish, Peggy Bray 1/2001

Table 13. Detailed return information, by species, to 2000 Alaska enhancement program projects.

13(a). Estimated pink salmon returns to Alaska hatcheries in 2000, including common property harvests, as reported by operators.

15(a): Estimated pink salmon returns to Alaska hatcheries in 2000, including common property harvests, as reported by operators.

Common Property Harvest											
Region/Operator/Location		Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
Southeast											
AKI	Port Armstrong	100,000						94,979	39,639	70,000	304,618
DIPAC	Gastineau	2,500	20,000	500	2,387			21,513	93,611		140,511
SJC	Indian River	68,040						3,160	114,460		185,660
LPW	Little Port Walter						100				100
Southeast Totals		170,540	20,000	500	2,387	0	100	119,652	247,710	70,000	630,889
Prince William Sound											
PWSAC	Armin F. Koernig	4,646,469						235,813	2,023,233		6,905,515
	Wally Noerenberg	4,980,503						255,851	3,459,414		8,695,768
	Cannery Creek	4,688,206						280,811	1,537,713		6,506,730
VFDA	Solomon Gulch	7,635,581			125,000		205,530	304,869	4,069,151	10,535	12,350,666
Prince William Sound Totals		21,950,759	0	0	125,000	0	205,530	1,077,344	11,089,511	10,535	34,458,679
Cook Inlet											
PGHC	Port Graham							89,838			89,838
CIAA	Tutka	60	8,520		2,000			179,970	1,043,705	19,048	1,253,303
Cook Inlet Totals		60	8,520	0	2,000	0	0	269,808	1,043,705	19,048	1,343,141
Kodiak											
KRAA	Kitoi Bay	3,659,698					27,000	270,836		5,000	3,962,534
Kodiak Totals		3,659,698	0	0	0	0	27,000	270,836	0	5,000	3,962,534
Statewide Totals		25,781,057	28,520	500	129,387	0	232,630	1,737,640	12,380,926	104,583	40,395,243

Kitoi "other" = assumed bear/seal predation

Solomon Gulch "other" = excess fish

13(b). Estimated chum salmon returns to Alaska hatcheries in 2000, including common property harvests, as reported by operators.

Common Property Harvest											
Region/Operator/Location		Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
Southeast											
SSRAA	Whitman Lake										0
	Nakat Inlet – summer	56,584	58,425								115,009
	Earl West Cove – summer	58,761	64,162								122,923
	Kendrick Bay – summer	190,301	19,599								209,900
	Neets Bay – summer	374,854	85,616				413,763	90,212	1,442,273		2,406,718
	Neets Bay – fall	1,882	1,105				13,763	14,202	155,877		186,829
	Nakat-Inlet- fall	20,628	1,228								21,856
NSRAA	Medvejie Creek	2,145,925	619,978	449,577			3,574	22,902	314,588	2,000	3,558,544
	Hidden Falls	2,737,324					7,918	83,399	271,808		3,100,449
	Haines projects		2,460					1,407		11,086	14,953
AAI	Burnett Inlet		11,000						11,222		22,222
	Anita Bay	5,176	7,641						7,351		20,168
DIPAC	Sheep Creek		207,758					22,430	220,673		450,861
	Gastineau		160,434		1,518			56,766	130,962		349,680
	Amalga		376,496	1,456					1,342,803		1,720,755
	Limestone Inlet		276,487								276,487
	Boat Harbor		226,317								226,317
KNFC	Gunnuk Creek	62,175		500	200		7,495	99,604	64,565	14,880	249,419
	Southeast Cove	122,150		500			2,000		364,488		489,138
SJC	Indian River	19,626						3,185	10,354		33,165
MIC	Tamgas Creek							250			250
Southeast Totals		5,795,386	2,118,706	452,033	1,718	0	448,513	394,357	4,336,964	27,966	13,575,643
Prince William Sound											
PWSAC	Wally Noerenberg	1,265	1,554,353					93,412	1,722,790		3,371,820
	Pt. Chalmers	992,253									992,253
	Armin F. Koernig	419,600							606		420,206
Prince William Sound Totals		1,413,118	1,554,353	0	0	0	0	93,412	1,723,396	0	4,784,279
Kodiak											
KRAA	Kitoi Bay	303,783					5,000	22,431		7,000	338,214
Kodiak Totals		303,783	0	0	0	0	5,000	22,431	0	7,000	338,214
Statewide Totals		7,512,287	3,673,059	452,033	1,718	0	453,513	510,200	6,060,360	34,966	18,698,136

Neets Bay "other"=barrier net failure + excess fish

13(c). Estimated coho salmon returns to Alaska hatcheries in 2000, including common property harvests, as reported by operators.

Common Property Harvest											
Region/Operator/Location		Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
Southeast											
SSRAA	Whitman Lake	369	1,627	8,031	918		2,776	1,811			15,532
	Earl West Cove	104	4,009	3,779	215						8,107
	Nakat	1,099	4,579	4,500	497						10,675
	Neets Bay	2,675	17,233	70,328	10,978		282		57,429		158,925
	Burnett Inlet (SSRAA)	451	782	183	32		200	1,406			3,054
NSRAA	Neck Lake	1,206	28,663	4,178	500			625	24,942		60,114
	Crystal Lake Hatchery	14	37	348	7		1,828	187			2,421
	Medvejie Creek	32	1	596	142		9	388			1,168
	Deer Lake			7,493	776		312		10,057		18,638
	Hidden Falls	7,297	39	55,221	3,765		3,864	3,829	94,974		168,989
AKI	Port Armstrong	56		7,095	326		20,000	1,500	15,613		44,590
DIPAC	Gastineau	1,856	3,010	23,404	12,605		1,431	2,535	44,933		89,774
KTHC	Sheep Creek	841	212	1,133	115						2,301
	Deer Mountain	1,116	1,042	526	211	200	705	107		250	4,157
	Ward Lake	165	523	256	101			1,500			2,545
SJC	Indian River			542			12	30			584
POWHA	Klawock Hatchery	3,752	197	29,203	6,918		3,548	1,177	17,936	9,513	72,244
MIC	Tamgas Creek	4,649	11,000	22,589	1,437	2,500		3,000	24,000		69,175
Fed	Auke Bay		5	57	23						85
Southeast Totals		25,682	72,959	239,462	39,566	2,700	34,967	18,095	289,884	9,763	733,078
Prince William Sound											
PWSAC	Wally Noerenberg	29,467	81,789			5,000		2,551			118,807
	Cordova/Whittier				34,071						34,071
VFDA	Solomon Gulch	342,490			100,000	3,800		1,625	24,887		472,802
Prince William Sound Totals		371,957	81,789	0	134,071	8,800	0	4,176	24,887	0	625,680
Cook Inlet											
CIAA	Trail Lakes				2,900	100	300	721	5,370	431	9,822
ADF&G	Elmendorf		3,000		48,000	2,035		255			53,290
	Ft Richardardson										0
	Landlocked				27,850						27,850
	Ship Creek		4,800		18,100			305			23,205
	Jim Cr				1,600			82			1,682
Cook Inlet Totals		0	7,800	0	98,450	2,135	300	1,363	5,370	431	115,849
Kodiak											
KRAA	Kitoi Bay	133,238			500	2,150	8,300	1,658			145,846
	Pillar Creek- road system				1,000			60		9,574	10,634
Kodiak Totals		133,238	0	0	1,500	2,150	8,300	1,718	0	9,574	156,480
Statewide Totals		530,877	162,548	239,462	273,587	15,785	43,567	25,352	320,141	19,768	1,631,087

Port Armstrong "other"-jacks

13(d). Estimated chinook salmon returns to Alaska hatcheries in 2000, including common property harvests, as reported by operators.

Common Property Harvest											
Region/Operator/Location		Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other	Brood	Cost Recovery		Total
Harvest									Harvest	Escapement	
Southeast											
SSRAA	Whitman Lake	6	490	3,316	4,000		7,689	611	278		16,390
	Earl West Cove	1,816	8,698	644	218						11,376
	Neets Bay		95	373					686		1,154
	Neets Bay/Crystal Lake Coop	11	132	1,246	276						1,665
ADF&G	Crystal Lake Hatchery		245	2,450	2,723		2,940	1,374			9,732
NSRAA	Medvejie Creek	179		6,237	1,075		3,320	1,214	17,589		29,614
	Hidden Falls	14,558	331	9,037	688		2,108	1,237	8,607		36,566
BCF	Burro Creek										0
DIPAC	Gastineau	75	466	635	2,469		67	811			4,523
KTHC	Deer Mountain Hatchery		54	295	431		405	70		350	1,605
SJC	Indian River			105			34	14			153
MIC	Tamgas Creek	2,000	1,123	1,313	471	2,438		300	10,041		17,686
Federal	Little Port Walter	141	35	1,238	106		1,400				2,920
Southeast Totals		18,786	11,669	26,889	12,457	2,438	17,963	5,631	37,201	350	133,384
Prince William Sound											
PWSAC	Wally Noerenberg										0
	Chenega/Cordova				1,730						1,730
Prince William Sound Totals		0	0	0	1,730	0	0	0	0	0	1,730
Cook Inlet											
ADF&G	Elmendorf										0
	Ninilchik River		825		1,100	186					2,111
	Ship Creek				2,500			328			2,828
	Crooked Creek				10,500			444			10,944
	Deception Cr				1,500						1,500
	Homer Spit				2,000	100					2,100
	Ft. Richardson										0
	Deception Creek				2,604			127			2,731
	Ninilchik River				850			357		871	2,078
Cook Inlet Totals		0	825	0	21,054	286	0	1,256	0	871	24,292
Statewide Totals		18,786	12,494	26,889	35,241	2,724	17,963	6,887	37,201	1,221	159,406

13(e). Estimated sockeye salmon returns to Alaska hatcheries in 2000, including common property harvests, as reported by operators.

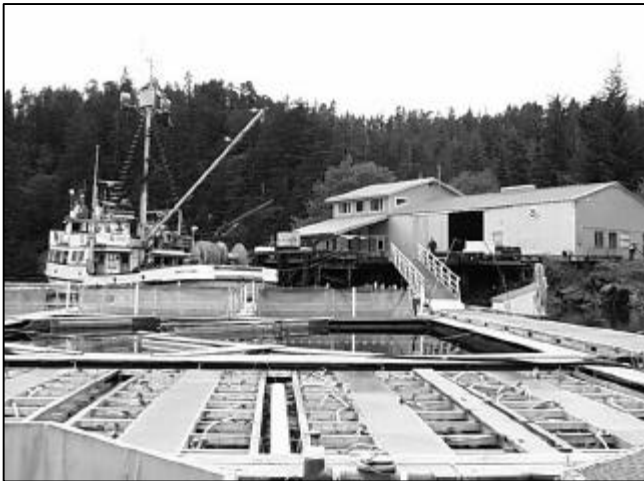
Common Property Harvest											
Region/Operator/Location		Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
Southeast											
SSRAA	Burnett Inlet – Virginia L	1,101	3,492			250				2,390	7,233
	Hugh Smith Lake	3,055	3,309					280		4,001	10,645
	Salmon Lake	6,503	7,186		555	500				9,103	23,847
SSRAA/ADF&G	McDonald Lake	63,645	14,674		200	7,000		300		90,623	176,442
POWHA	Klawock Hatchery							250	9,428		9,678
MIC	Tamgas Creek							60			60
DIPAC	Snettisham – Gilbert Bay	975	40,471	259	200		11,191	4,800	104,430		162,326
	Sweetheart	137	1,440			3,500			13		5,090
	Chilkat L Coop	3,252								4,879	8,131
	Stikine		24,956	3							24,959
	Taku	3	2,050	5							2,058
Southeast Totals		78,671	97,578	267	955	11,250	11,191	5,690	113,871	110,996	430,469
Prince William Sound											
PWSAC	Main Bay-Eyak		15,537								15,537
	Coghill				360			5,426			5,786
	Eshamy		323,768		2,000						325,768
	Solf L					200					200
	Gulkana I and II		22,852		375	3,427		9,699		1,725	38,078
	Crosswind L		125,760		2,100	18,860	37,681			25,200	209,601
	Summit L		2,160		40	320				1,080	3,600
Prince William Sound Totals		0	490,077	0	4,875	22,807	37,681	15,125	0	28,005	598,570
Cook Inlet											
PGHC	Port Graham		2,500			2,500		1,376		11,237	17,613
CIAA	Eklutna		4,500				1,000		2,623		8,123
	Tutka						1,841		916		2,757
	Trail Lakes – Bear Creek	18,302			100		500	3,438	1,695	8,463	32,498
	Hidden L		27,436		3,825	5,475		1,342	770	33,318	72,166
	Chenik Lake									4,800	4,800
	Tustumena		41,655			6,653		8,717		36,945	93,970
	Meadow Creek		11,950		125	1,500		2,808		8,363	24,746
	Paint R/Bruin/Ursus						170				170
	Packer's Creek		20,100		375				6,691	16,613	43,779
	Grouse/Salmon Creek				200		2,200		42,950		45,350
	Kirschner Lake	10,236							21,391		31,627
	Leisure/Hazel L	79,470			650	4,900	256		17,630		102,906
Cook Inlet Totals		108,008	108,141	0	5,275	21,028	5,967	17,681	94,666	119,739	480,505
Kodiak											
KRAA	Kitoi Bay	52,783			300						53,083
	Pillar Creek- L Kitoi	9,600			30						9,630
	Duck Bay/Ruth L	3,000									3,000
	Afognak	14,100						1,416		54,100	69,616
	Hidden L/Foul Bay	26,600									26,600
	Malina L	10,900								21,000	31,900
	Paul's Basin	400								27,400	27,800
	Spiridon Lake	120,000	80,000				2,000				202,000
	L Waterfall L	8,600									8,600
	Frazer Lake Fishpass	41,575	92,540								134,115
Kodiak Totals		287,558	172,540	0	330	0	2,000	1,416	0	102,500	566,344
Statewide Totals		474,237	868,336	267	11,435	55,085	56,839	39,912	208,537	361,240	2,075,888

Gulkana "other" = excess fish; killed and placed in stream to decompose.

Table 13(f). Estimated "other" enhanced fish returns to Alaska hatcheries in 2000.

Region/Operator/Location			Species	Commercial	Sport Catch	Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
Southeast											
DMTH	Deer Mountain		steelhead					14		11	25
LPW	Little Port Walter		steelhead				40				40
Southeast Totals				0	0	0	40	14	0	11	65
Cook Inlet											
ADF&G	Ft. Richardson/Statewide lakes		Arctic char		8,861			146			9,007
			Arctic grayling		4,512						4,512
			Lake trout		1,695						1,695
			rainbow trout		101,220						101,220
Cook Inlet Totals				0	116,288	0	0	146	0	0	116,434
Statewide Totals				0	116,288	0	40	160	0	11	116,499

See Table 16 for listing of acronyms used throughout this report.



Little Port Walter



Jerry Meyers facility/Skagway schools

Table 14. Summary of fishery resource-permitted salmon production in Alaska for 2000.

Region/Permittee	Species	Maximum Number to be Released
Southeast		
Dzantiki heeni Middle School (Juneau)	COHO	750
Hoonah High School	COHO	500
Juneau Center for Fisheries & Ocean Sciences	COHO	118,000
Juneau-Douglas High School	COHO	3,000
Petersburg High School	PINK	50,000
Skagway School	PINK, COHO, CHINOOK	30,000, 12,000 & 20,000
Thorne Bay Elementary	COHO	500
USDA Forest Service	COHO	90,000
Valley Park Elementary (Ketchikan)	COHO	100
Verstovia Elementary (Sitka)	CHUM	300
White Cliff Elementary (Ketchikan)	COHO	250
Yakutat Elementary School	COHO	250
Southcentral		
Alpenglow Elementary (Eagle River)	COHO	250
Anchorage Montessori School	COHO	250
Aquarian Charter (Anchorage)	COHO	250
Aurora Elementary (Elmendorf AFB)	COHO	250
Baxter Elementary School (Anchorage)	COHO	250
Bayshore Elementary (Anchorage)	COHO	250
Bear Valley Elementary (Anchorage)	COHO	250
Butte Elementary School (Palmer)	COHO	250
Central School of Science (Anchorage)	COHO	250
Chapman School (Anchor Point)	COHO	250
Chugiak High School (Eagle River)	COHO	250
College Gate Elementary (Anchorage)	COHO	250
Colony Middle School (Palmer)	COHO	800
Creekside Elementary (Anchorage)	COHO	250
Denali Elementary (Anchorage)	COHO	250
Eagle River Elementary	COHO	250
Fairview Elementary (Anchorage)	COHO	250
Family Partnership Charter School (Anchorage)	COHO	250
Finger Lake Elementary (Palmer)	COHO	250
Girdwood School	COHO	250
Gladys Wood Elementary (Anchorage)	COHO	250
Goldenview Middle School (Anchorage)	COHO, RAINBOW	250 & 250
Goose Bay Elementary (Palmer)	COHO	250
Homer High School	COHO	10,000
Homestead Elementary (Eagle River)	COHO	250
Huffman Elementary (Anchorage)	COHO	250
Inlet View Elementary (Anchorage)	COHO	250
Kalifornsky Beach Elementary (Soldotna)	COHO	250
Kasuun Elementary (Anchorage)	COHO	250
Kenny Lake School (Copper Center)	COHO	250
Kincaid Elementary (Anchorage)	COHO	250
Klatt Elementary (Anchorage)	COHO	250
Lake Hood Elementary (Anchorage)	COHO	250
Meadow Lakes Elementary (Wasilla)	COHO	500
Midnight Sun Family Learning Center (Wasilla)	COHO	150
Mirror Lake Middle School (Chugiak)	COHO	250
Moose Pass School	COHO	500
Mountain View Elementary (Anchorage)	COHO	250
Mt. Iliamna Preschool (Elmendorf AFB)	COHO	250
Mt. View Elementary (Kenai)	COHO	450
Nanwalek Elem/High School	COHO	500
Nikiski Elementary	COHO	250
Ninilchik School	COHO	500
Northern Lights ABC (Anchorage)	COHO	250
Northwood Elementary (Anchorage)	COHO	250
Nunaka Valley Elementary (Anchorage)	COHO	250
Ocean View Elementary (Anchorage)	COHO	250
O'Malley School (Anchorage)	COHO	250
Orion Elementary (Elmendorf AFB)	COHO	250
Ouzinkie School (Ouzinkie)	COHO	500
Palmer Junior Middle School	COHO	500
Pioneer Peak Elementary School (Palmer)	COHO	500
Polaris K-12 School (Anchorage)	COHO	250
Rabbit Creek Elementary (Anchorage)	COHO	250
Redoubt Elementary (Soldotna)	COHO	250
Rogers Park Elementary (Anchorage)	COHO	250

Table 14. Continued.

Region/Permittee	Species	Maximum Number to be Released
SAVE High School (Anchorage)	COHO	250
Scenic Park Elementary (Anchorage)	COHO	250
Sears Elementary (Kenai)	COHO	500
Sherrod Elementary (Palmer)	COHO	250
Snowshoe Elementary (Palmer)	COHO	500
St. Elizabeth Ann Seton (Anchorage)	COHO	250
Sterling Elementary	COHO	250
Susitna Elementary (Anchorage)	COHO	250
Swanson Elementary (Palmer)	COHO	100
Taku Elementary (Anchorage)	COHO	250
Tannaina Elementary (Wasilla)	COHO	250
Trailside Elementary School (Eagle River)	COHO	250
Tudor Elementary (Anchorage)	COHO	250
Turnagain Elementary (Anchorage)	COHO	250
Tustumena Elementary (Kasilof)	COHO	250
UAK Cooperative Extension Service (Palmer)	COHO	250
University of Montana (Alaska SeaLife Center)	PINK	90,000
Wasilla High School	COHO	250
Wasilla Middle School	COHO	500
Whittier Community School	COHO	250
Willow Crest Elementary (Anchorage)	COHO	250
Willow Elementary School (Willow)	COHO	500
Interior		
Anderson School	COHO	250
Crawford Elementary (Fairbanks)	COHO	250
Delta Junction High School	COHO	500
Joy Elementary (Fairbanks)	COHO	500
Katie John School (Mentasta Lake)	COHO	500
Nenana School	COHO	500
Nordale Elementary (Fairbanks)	COHO	250
Pearl Creek Elementary (Fairbanks)	COHO	250
Tok School	COHO	250
Tri-Valley School (Healy)	COHO	500
Whitestone Training Center (Delta Junction)	COHO	450
Woodriver Elementary (Fairbanks)	COHO	500
Western		
Chefornak High School	COHO	500
East Elementary School (Kodiak)	COHO	500
Perryville School	COHO	500
Peterson Elementary School (Kodiak)	COHO	550
Sand Point School	COHO	250
Togiak School	COHO	500
Unalaska High School	PINK, COHO	24,000 & 25,000
Old Harbor School	COHO	500
Dillingham High School	COHO	500
Arctic-Yukon-Kuskokwim		
Crow Village Sam School (Chuathbaluk)	COHO	500
Aggaluk High School (Noorvik)	COHO	500
Arctic Village School (Arctic Village)	COHO	100
Bethel Regional High School	COHO	250
Circle School	COHO	250
Deering Elementary	COHO	500
Deering School	COHO	500
Ella B. Vernetti School (Koyukuk)	CHUM	500
Far North School (Central)	COHO	500
Fort Yukon School	COHO	500
Galena City School	COHO	250
Gusty Michael School (Stony River)	COHO	500
Jack Egnaty Sr. School (Sleetmute)	COHO	500
JoAnn Alexie Memorial School (Atmautluak)	COHO	500
Johnny Oldman School (Hughes)	COHO	250
Kaltag School	COHO	500
Marshall School	COHO	250
Nome-Beltz High School	COHO	5,000
North Pole Middle School	COHO	500
Norton Sound/Bering Strait Regional Aquaculture	CHUM	470
Quinhagak School	COHO	300
Trapper School (Nuiqsut)	COHO	500

Table 15. Detailed return information, by species, to 1999 Alaska enhancement program projects.

[REDACTED] = updated information

15(a). Updated pink salmon returns to Alaska hatcheries in 1999, including common property harvests, as reported by operators.

Common Property Harvest											
Region/Operator/Location		Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
Southeast											
AKI	Port Armstrong	805,200						256,248	3,164,588	101,752	4,327,788
BCF	Burro Creek	400	400	400	200			288		2,000	3,688
DIPAC	Gastineau				2,858			508,469			511,327
SJC	Indian River	18,662					2,684	7,526	98,253		127,125
Southeast Totals		824,262	400	400	3,058	0	2,684	772,531	3,262,841	103,752	4,969,928
Prince William Sound											
PWSAC	Armin F. Koernig	4,949,144					359,250	369,480	3,062,024		8,739,898
	Wally Noerenberg	4,728,431					500,000	384,664	3,853,755		9,466,850
	Cannery Creek	5,323,301					350,000	323,111	2,076,438		8,072,850
VFDA	Solomon Gulch	9,465,378			150,000		300,000	426,205	4,509,793	72,908	14,924,284
Prince William Sound Totals		24,466,254	0	0	150,000	0	1,509,250	1,503,460	13,502,010	72,908	41,203,882
Cook Inlet											
PGHC	Port Graham	No pink return in 1999									0
CIAA	Tutka	219,160	3,068		2,000			151,903	857,902	27,724	1,261,757
Cook Inlet Totals		219,160	3,068	0	2,000	0	0	151,903	857,902	27,724	1,261,757
Kodiak											
KRAA	Kitoi Bay	4,057,000						280,317		200,000	4,537,317
Kodiak Totals		4,057,000	0	0	0	0	0	280,317	0	200,000	4,537,317
Statewide Totals		29,566,676	3,468	400	155,058	0	1,511,934	2,708,211	17,622,753	404,384	51,972,884

15(b). Updated chum salmon returns to Alaska hatcheries in 1999, including common property harvests, as reported by operators.

Common Property Harvest											
Region/Operator/Location		Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
Southeast											
SSRAA	Whitman Lake										0
	Nakat Inlet – summer	36,965	45,046								82,011
	Earl West Cove – summer	74,116	38,419								112,535
	Kendrick Bay – summer	92,241	20,887								113,128
	Neets Bay – summer	396,883	74,085				82,261	95,014	1,485,026		2,133,269
	Neets Bay – fall	19,819	24,956				2,088	41,500	136,980		225,343
NSRAA	Medvejie Creek	2,602,058	608,452	67,348			10,040	29,728	343,375	1,700	3,662,701
	Hidden Falls	2,336,207					8,163	85,521	284,808		2,714,699
	Haines projects		1,681				2,521	1,413		7,882	13,497
AAI	Burnett Inlet	5,817	14,630						156,950		177,397
	Anita Bay	400,440	139,440						65,400		605,280
BCF	Burro Creek	5	5	5	5			16		8	44
DIPAC	Sheep Creek		130,078					54,855	106,277		291,210
	Gastineau		117,131		1,000			103,961	40,132		262,224
	Amalga	599	151,729	284					723,296		875,908
	Limestone Inlet		159,219								159,219
	Boat Harbor		118,346								118,346
KNFC	Gunnuk Creek	58,495		500	500		7,430	105,055	53,432	10,980	236,392
	Southeast Cove	59,517		500			3,000		175,778		238,795
SJC	Indian River	2,700						4,860	9,200		16,760
MIC	Tamgas Creek		3,766						3,429	750	7,945
Southeast Totals		6,085,862	1,647,870	68,637	1,505	0	115,503	521,923	3,584,083	21,320	12,046,703
Prince William Sound											
PWSAC	Wally Noerenberg	561,403	633,072					219,073	774,506		2,188,054
	Pt. Chalmers	638,941									638,941
	Armin F. Koernig	6,959					15,000		1,294		23,253
VFDA	Solomon Gulch						190		897		1,087
Prince William Sound Totals		1,207,303	633,072	0	0	0	15,190	219,073	776,697	0	2,851,335
Kodiak											
KRAA	Kitoy Bay	140,900						27,814		5,000	173,714
Kodiak Totals		140,900	0	0	0	0	0	27,814	0	5,000	173,714
Statewide Totals		7,434,065	2,280,942	68,637	1,505	0	130,693	768,810	4,360,780	26,320	15,071,752

15(c). Updated coho salmon returns to Alaska hatcheries in 1999, including common property harvests, as reported by operators.

Common Property Harvest											
Region/Operator/Location		Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
Southeast											
SSRAA	Whitman Lake										0
	Earl West Cove	809	6,764	11,685	485						19,743
	Summer	492	8,230	16,730	1,872		1,027	1,288			29,639
	Nakat	670	5,814	8,432	759						15,675
	Neets Bay	4,548	52,006	104,292	10,660		578	1,017	13,823		186,924
	Burnett Inlet (SSRAA)	504	4,488	1,081	152		1,479	1,453			9,157
	Neck Lake	377	15,794	6,715	4,000				22,000		48,886
NSRAA	Medvejie Creek	126		688	109		6	139			1,068
	Deer Lake	33,374	181	146,977	5,543		1,120		105,900		293,095
	Shamrock Bay	30		12,723	3,430		300	6			16,489
	Hidden Falls	24,126	330	99,696	3,406		11,794	2,085	116,446		257,883
AKI	Port Armstrong	2,119		10,067	673				5,194	2,191	20,244
BCF	Burro Creek	30	30	30	25			45		30	190
DIPAC	Gastineau	3,435	4,984	38,482	12,067		432	2,683	58,270		120,353
KNFC	Gunnuk Creek	204	8	348						560	1,120
KTHC	Deer Mountain	974	1,323	1,215	744		1,508	137		682	6,583
	Ward Lake	337	1,097	971	676					1,550	4,631
SJC	Indian River			60	25		7	63		240	395
POWHA	Klawock Hatchery	1,420		9,579	3,189			1,880	4,992	8,506	29,566
MIC	Tamgas Creek		38,422	29,917	3,222				30,000	1,200	102,761
Fed	Auke Bay						28				28
ADF&G	Old Frank's Lake	1,769	1,273	1,258							4,300
	Crystal Lake Hatchery	295	704	4,661	5		826	247			6,738
Southeast Totals		75,639	141,448	505,607	51,042	0	19,105	11,043	356,625	14,959	1,175,468
Prince William Sound											
PWSAC	Wally Noerenberg	338			100		2,256	131			2,825
	Cordova/Whittier				4,000			146			4,146
VFDA	Solomon Gulch	67,232			50,000			2,541	12,679		132,452
Prince William Sound Totals		67,570	0	0	54,100	0	2,256	2,818	12,679	0	139,423
Cook Inlet											
CIAA	Eklutna		1,000		500		500				2,000
	Trail Lakes				2,500		391	939	2,499		6,329
ADF&G	Elmendorf				39,870	1,803		405			42,078
	Ft Richardardson/ Bear L										0
	Landlocked				33,441						33,441
	Jim Cr		1,023		1,600			118			2,741
	Little Susitna		3,689		10,500		714	206		493	15,602
Cook Inlet Totals		0	5,712	0	88,411	1,803	1,605	1,668	2,499	493	102,191
Kodiak											
KRAA	Kitoi Bay	115,900			300		913	7,224		1,000	125,337
	Pillar Creek- road system				1,000			52		9,574	10,626
Kodiak Totals		115,900	0	0	1,300	0	913	7,276	0	10,574	135,963
Statewide Totals		259,109	147,160	505,607	194,853	1,803	23,879	22,805	371,803	26,026	1,553,045

15(d). Updated chinook salmon returns to Alaska hatcheries in 1999, including common property harvests, as reported by operators.

Common Property Harvest											
Region/Operator/Location		Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
Southeast											
SSRAA	Whitman Lake		308	1,722	1,608		3,067	669			7,374
	Carroll Inlet			108	184						292
	Earl West Cove	761	3,292	474	244						4,771
	Neets Bay		20	502	277				1,174		1,973
	Neets Bay/Crystal Lake Coop			49	135				220		404
NSRAA	Medvejie Creek	437		5,320	2,327		6,475	1,390	9,604		25,553
	Hidden Falls	11,640	121	4,668	950		1,730	2,030	2,373		23,512
BCF	Burro Creek	15	15	10	20			15		25	100
DIPAC	Gastineau		631	268	1,771			642		248	3,560
KTHC	Deer Mountain Hatchery		48	141	415	159	196	70			1,029
SJC	Indian River			124	25		11	81		360	601
MIC	Tamgas Creek		551	401	136		1,448		3,026	677	6,239
Federal	Little Port Walter	121	25	1,404	170		1,360	190			3,270
ADF&G	Crystal Lake Hatchery		165	1,617	858		3,607	1,043			7,290
Southeast Totals		12,974	5,176	16,808	9,120	159	17,894	6,130	16,397	1,310	85,968
Prince William Sound											
PWSAC	Wally Noerenberg				460						460
	Chenega/Cordova				923						923
Prince William Sound Totals		0	0	0	1,383	0	0	0	0	0	1,383
Cook Inlet											
ADF&G	Elmendorf										0
	Ninilchik River		1,112		1,197	150					2,459
	Ship Creek				5,204		343	74		519	6,140
	Deception Cr				812					50	862
	Homeer Spit				2,338	276					2,614
	Crooked Creek				10,008			222			10,230
	Ft. Richardson										0
	Deception Creek				1,630			200			1,830
	Ninilchik River				600			178			778
Cook Inlet Totals		0	1,112	0	21,789	426	343	674	0	569	24,913
Statewide Totals		12,974	6,288	16,808	32,292	585	18,237	6,804	16,397	1,879	112,264

15(e). Updated sockeye salmon returns to Alaska hatcheries in 1999, including common property harvests, as reported by operators.

Common Property Harvest											
Region/Operator/Location		Seine	Gillnet	Troll	Sport	Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
Southeast											
SSRAA	Beaver Falls – Virginia L	1,308	2,509								3,817
	Hugh Smith Lake	944	3,103					276		2,898	7,221
	Salmon Lake	725	604							15,700	17,029
SSRAA/ADF&G	McDonald Lake	56,190	22,169		200	7,000	2,426	286		89,262	177,533
POWHA	Klawock Hatchery	11,226					84	477		4,749	16,536
DIPAC	Snettisham – Gilbert Bay	283	3,221			1,505		95	4,412	400	9,916
	Snettisham-Speel	292	4,533				8,645	3,313	20,244	4,358	41,385
	Crescent L	170	1,667						157		1,994
	Chilkat L Coop		4,504				6,757				11,261
	Stikine		16,053				18,459				34,512
	Taku		611				290				901
Southeast Totals		71,138	58,974	0	200	8,505	36,661	4,447	24,813	117,367	322,105
Prince William Sound											
PWSAC	Main Bay-Eyak		705		300						1,005
	Coghill		24,514		500			7,104			32,118
	Eshamy		118,292								118,292
	Marsha				6,350						6,350
	Gulkana I and II		74,200		1,124	10,576	11,235	17,890		12,060	127,085
	Crosswind L		178,158		2,979	27,409	60,608		28,769		297,923
	Summit L		15,688		262	2,413				7,870	26,233
Prince William Sound Totals		0	411,557	0	11,515	40,398	71,843	24,994	28,769	19,930	609,006
Cook Inlet											
PGHC	Port Graham					2,564		1,234	660	14,110	18,568
CIAA	Eklutna		17,785				2,500		15,285		35,570
	Tutka		18,711				21,290		88		40,089
	Trail Lakes – Bear Creek	16,424			71			1,982	8,605	1,071	28,153
	Chenik									2,850	2,850
	Hidden L		36,493		256			2,096	585	33,812	73,242
	Paint R/Bruin/Ursus						2,410				2,410
	Packer's Creek		31,655		185		135		16,947	14,574	63,496
	Grouse/Salmon Creek				250		777		106,449		107,476
	Kirschner Lake	22,256					800		17,504		40,560
	China Poot/Hazel L	203,900			670	5,500	522		16,188		226,780
Cook Inlet Totals		242,580	104,644	0	1,432	8,064	28,434	5,312	182,311	66,417	639,194
Kodiak											
KRAA	Kitoi Bay	54,478			30						54,508
	Pillar Creek- L Kitoi	60,123			30						60,153
	Crescent L					1,000					1,000
	Duck Bay/Ruth L	3,000									3,000
	Afognak	33,953					2,000	1,534		91,826	129,313
	Hidden L/Foul Bay	44,192									44,192
	Malina L	19,000					3,000			26,191	48,191
	Paul's Basin	16,286					3,000			25,844	45,130
	Spiridon Lake	279,000	186,000							2,000	467,000
	Waterfall Bay	9,359									9,359
	Frazer Lake Fishpass	41,575	92,540								134,115
Kodiak Totals		560,966	278,540	0	60	1,000	8,000	1,534	0	145,861	995,961
Statewide Totals		874,684	853,715	0	13,207	57,967	144,938	36,287	235,893	349,575	2,566,266

Table 15(f). Updated "other" enhanced fish returns to Alaska hatcheries in 1999.

Region/Operator/Location			Species	Commercial	Sport Catch	Personal Use/ Subsistence	Other	Brood	Cost Recovery Harvest	Escapement	Total
Southeast											
POWHA	Klawock		steelhead								0
DMTH	Deer Mountain		steelhead					12			12
Southeast Totals				0	0	0	0	12	0	0	12
Cook Inlet											
ADF&G	Ft. Richardson/Statewide lakes		Arctic char		5,436						5,436
			Arctic grayling		4,247						4,247
			Lake trout		1,960						1,960
			rainbow trout		99,414						99,414
Cook Inlet Totals				0	111,057	0	0	0	0	0	111,057
Statewide Totals				0	111,057	0	0	12	0	0	111,069

See Table 16 for listing of acronyms used throughout this report.



Net washing at Hidden Falls Hatchery, Baranof Island

Table 16. List of acronyms.

Acronym	
AAC	American Aquaculture Corporation
AAI	Alaska Aquaculture, Inc.
ADF&G	Alaska Department of Fish and Game
AKI	Armstrong-Keta, Inc.
AYK	Arctic-Yukon-Kuskokwim
BCF	Burro Creek Farms, Inc.
CIAA	Cook Inlet Aquaculture Association
COOP	Cooperative projects between state and PNP operators
DCED	Department of Commerce and Economic Development
DIPAC	Douglas Island Pink and Chum, Inc.
DMTH	Deer Mountain Tribal Hatchery
FRED	Fisheries Rehabilitation, Enhancement and Development Division
KNFC	Kake Nonprofit Fisheries Corporation
KRAA	Kodiak Regional Aquaculture Association
MCAA	Meyers Chuck Aquaculture Association
MIC	Metlakatla Indian Community
NMFS	National Marine Fisheries Service
NSRAA	Northern Southeast Regional Aquaculture Association
PGHC	Port Graham Hatchery Corporation
PNP	Private nonprofit
POWHA	Prince of Wales Hatchery Association
PWSAC	Prince William Sound Aquaculture Corporation
SJC	Sheldon Jackson College
SSRAA	Southern Southeast Regional Aquaculture Association
VFDA	Valdez Fisheries Development Association



Table 17. Alaska Salmon Hatchery Contact List

updated: 2/12/01 16:03

Alaska Department of Fish and Game// Division of Commercial Fisheries

Contact: Steve McGee (907)465-6152 PNP Program Coordinator

list only includes actively operated hatcheries

Initials	Address	City, State, Zip	Office phone	Fax phone	Active Hatcheries*	Hatchery Manager	Director	Email
<u>Southeast</u>								
R	SSRAA 2721 Tongass Ave	Ketchikan, AK 99901	(907) 225-9605	(907) 225-1348	Whitman Lake Neets Bay Burnett Inlet Crystal Lake*	Jay Creasy Bill Gass Dave Bright Loren Thompson	John Burke John Burke John Burke John Burke	ssraa@ptialaska.net
R	NSRAA 1308 Sawmill Creek Rd	Sitka, AK 99835	(907)772-4772 (907) 747-6850	(907) 747-1470	Medvejie Creek Hidden Falls* Haines Projects	Jim Seeland Al Edsall Lee Close	Pete Esquiro Pete Esquiro Pete Esquiro	crstlk@mitkof.net nsraa@ptialaska.net
P	DIPAC 2697 Channel Drive	Juneau, AK 99801	(907)463-5114	(907) 463-3213	Sheep Creek Macaulay Snettisham*	Sam Rabung Sam Rabung Steve Reid	Jon Carter Jon Carter Jon Carter	Jon_Carter@dipac.net Rick_Focht@dipac.net Eric_Prestegard@dipac.net
P	POWHA PO Box 554	Craig, AK 99921	(907)755-2231	(907) 755-2440	Prince of Wales*	John Bruns	John Bruns	powha@apt.net
P	SJC 801 Lincoln St	Sitka, AK 99835	(907)747-5209		Sheldon Jackson	Jaime Pacheco	Mel Seifert	
P	KNFC PO Box 523	Kake, AK 99830	(907)785-6460	(907) 785-6460	Gunnuk Creek	Brock Meredith	Steve Andison	fogwoman@seaknet.ne.alaska.edu
P	BCF P.O. Box 455	Skagway, AK 99840	(907)983-2355		Burro Creek	Eugene Richards	Gene Richards	burrocr@ptialaska.net
P	AKI P.O. Box 21990	Juneau, AK 99802	(907)586-3443	(907)586-2236	Port Armstrong	Lon Garrison	Tim Blust	aki@ak.net
P	KTHC 2960 Tongass Ave	Ketchikan, AK 99901	(907) 225-6760	(907)225-7601	Deer Mountain	Jerry Guthrie	Jerry Guthrie	jguthrie@kictribe.com
F	NMFS P.O. Box 21990	Juneau, AK 99802	(907)586-3443	(907)586-2236	Auke Bay Little Port Walter	Jerry Taylor Frank Thrower		jerry.taylor@noaa.gov frank.thrower@noaa.gov
F	MIC PO Box 8	Metlakatla, AK 99929	(907)886-3150	(907)886-3152	Tamgas Creek	Steve Leask	Steve Leask	tchcoho@ktn.net
<u>Prince William Sound</u>								
R	PWSAC PO Box 1110	Cordova, AK 99574	(907) 424-7511	(907) 424-7514	AF Koernig W Noerenberg Main Bay* Gulkana* Cannery Creek*	Chris Mitchell Mark Somerville Paul Santavy Gary Martinek Brian Wisner	Bud Perrine Bud Perrine Bud Perrine Bud Perrine Bud Perrine	pwsac@ptialaska.net
P	VFDA PO Box 125	Valdez, AK 99686	(907) 835-4874	(907) 835-5951	Solomon Gulch	Ken Morgan	Jason Wells	vfda@cvinternet.net
<u>Cook Inlet</u>								
R	CIAA 40610 Kalifornsky Beach Rd	Kenai, AK 99611	(907) 283-5761	(907) 283-9433	Trail Lakes* Tutka*	Jeff Hetrick George Bowden	Gary Fandrei Gary Fandrei	ciaa@ptialaska.net
P	PGH PO Box 5543	Port Graham, AK 99603	(907)284-2233	(907)284-2238	Port Graham	Paul McCollum	Paul McCollum	paulam@ptialaska.net
S	ADFG 941 N. Reeve Blvd. PO Box 5267	Anchorage, AK 99501 Anchorage, AK 99505	(907)274-0065 (907) 428-1348		Elmendorf Ft Richardson	Darrell Keifer Jeff Milton	Larry Peltz Larry Peltz	darrell_keifer@fishgame.state.ak.us jeffrey_milton@fishgame.state.ak.us
<u>Kodiak</u>								
R	KRAA PO Box 3407	Kodiak, AK 99615	(907) 486-6555	(907) 486-4105	Pillar Creek* Kitoi Bay*	Chris Clevenger Andrew Aro	Larry Malloy Larry Malloy	kraa07@ptialaska.net
Codes: R = Regional Aquaculture Association Private NonProfit (PNP) hatcheries, P= Nonassociation PNP hatchery, F= Federal/BIA hatchery, S=State hatchery * = state owned hatchery contracted to private operator								

Table 17. Continued.

updated: 2/12/01 16:03

Alaska Department of Fish and Game// Division of Commercial Fisheries

Contact: Steve McGee (907)465-6152 PNP Program Coordinator

Initials	Corporate name	Active Hatcheries*	Permit #	PNP permit issued	Species reared	Web Site
<u>Southeast</u>						
SSRAA	Southern Southeast Regional Aquaculture Association	Whitman Lake	8	3/9/78	chum, coho, chinook	home.att.net/~ssraa/
		Neets Bay	19	6/17/83	chum, coho, chinook	
		Burnett Inlet	40	9/30/97	sockeye, coho	
		Crystal Lake*			chinook, coho	
NSRAA	Northern Southeast Regional Aquaculture Association	Medvejie Creek	16	8/17/81	chum, coho, chinook, pink	www.ptialaska.net/~nsraa/index.html
		Hidden Falls*	28	6/22/88	chum, chinook, coho	
		Haines Projects	34	4/29/92	chum, sockeye	
DIPAC	Douglas Island Pink and Chum, Inc	Sheep Creek	11	9/19/79	chum, pink, coho	www.dipac.net
		Gastineau	25	6/3/87	chum, pink, coho, chinook	
		Snettisham*	39	7/15/96	sockeye	
POWHA	Prince of Wales Hatchery Association	Prince of Wales*	38	2/19/96	coho, sockeye, chinook, steelhead	
SJC	Sheldon Jackson College	Sheldon Jackson	3	4/29/75	pink, chum, coho, chinook, steelhead	
KNFC	Kake Nonprofit Fisheries Corporation	Gunnuk Creek	7	4/1/77	pink, chum, coho	
BCF	Burro Creek Farms	Burro Creek	12	5/23/80	pink, chum, coho, chinook	
AKI	Armstrong-Keta, Inc.	Port Armstrong	13	2/23/81	pink, chinook, coho	
KTHC	Ketchikan Tribal Hatchery Corporation	Deer Mountain	37	6/22/94	chinook, coho, steelhead, rainbow	
NMFS	National Marine Fisheries Service	Auke Bay				
		Little Port Walter			chinook, pink, steelhead	
MIC	Tamgas Creek Hatchery	Tamgas Creek			chum, coho, chinook, sockeye	
<u>Prince William Sound</u>						
PWSAC	Prince William Sound Aquaculture Association	AF Koernig	2	9/29/75	pink	www.ptialaska.net/~pwsac/index.html
		W Noerenberg	20	6/17/83	pink, chum, chinook, coho	
		Main Bay*			sockeye	
		Gulkana*			sockeye	
		Cannery Creek*	26	6/22/88	pink	
VFDA	Valdez Fisheries Development Association	Solomon Gulch	15	6/26/81	pink, coho, chinook	
<u>Cook Inlet</u>						
CIAA	Cook Inlet Aquaculture Association	Trail Lakes*	27	6/22/88	sockeye, coho, chinook	
		Tutka*	32	1/3/94	pink, sockeye	
PGH	Port Graham Hatchery Corporation	Port Graham	33	8/3/92	pink, sockeye, coho	
ADFG	Alaska Department of Fish and Game	Elmendorf			chinook, coho	www.state.ak.us/adfg/adfghome.htm
		Ft Richardson			chinook, coho, char, grayling, lake & rainbow trout	
<u>Kodiak</u>						
KRAA	Kodiak Regional Aquaculture Association	Pillar Creek*	41	5/1/98	sockeye, coho, chinook	www.kraa.org
		Kitoi Bay*	29	7/5/88	pink, chum, coho, sockeye	
Codes: * = state owned hatchery contracted to private operator						